HAGEMAN-AGUIAR, INC.

Underground Contamination Investigations
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REPORT OF
SOIL AND GROUNDWATER INVESTIGATION

QUALITY TUNE-UP
2780 Castro Valley Blvd
Castro Valley, CA

July 17, 1992

TABLE OF CONTENTS

I. INTRODUCTION

The site location is the Quality Tune-up facility in Castro Valley, California. The location of the site is shown in Figure 1. In conjunction with a previous service station operation, the site has historically operated four underground fuel storage tanks for a number of years.

The scope of work involved the installation of three groundwater monitoring wells as the result of subsurface contamination found at the time four underground storage tanks were removed from this site.

In February 1987 the two 7,500 Gasoline tanks and one Waste Oil tank were removed by 4M Construction of Madera, California. Soil and groundwater samples were collected, and were subsequently analyzed by Trace Analysis Laboratory, Inc. Of the seven soil samples collected, only "Extractable Hydrocarbons" were detected in those soil samples collected in the vicinity of the Waste Oil tank location. Analysis of the groundwater sample indicated 26 mg/L (ppm) of Volatile Hydrocarbons, 420 µg/L (ppb) of Benzene, 2,000 µg/L (ppb) of Toluene and 9,400 µg/L (ppb) of Total Xylenes.

On June 11, 1991, the final 8,000-gallon underground storage tank was removed from the site by Minter & Fahy Construction, Inc, Pacheco, California. This underground tank was utilized for Gasoline storage until February 1987, at which time it was converted to Waste Oil storage. At the time of removal, the tank was apparently being utilized for storage of Waste Oil. Soil samples were collected from the tank excavation and were subsequently analyzed by Chromalab Laboratory, Inc., San Ramon, California. The results of laboratory analyses

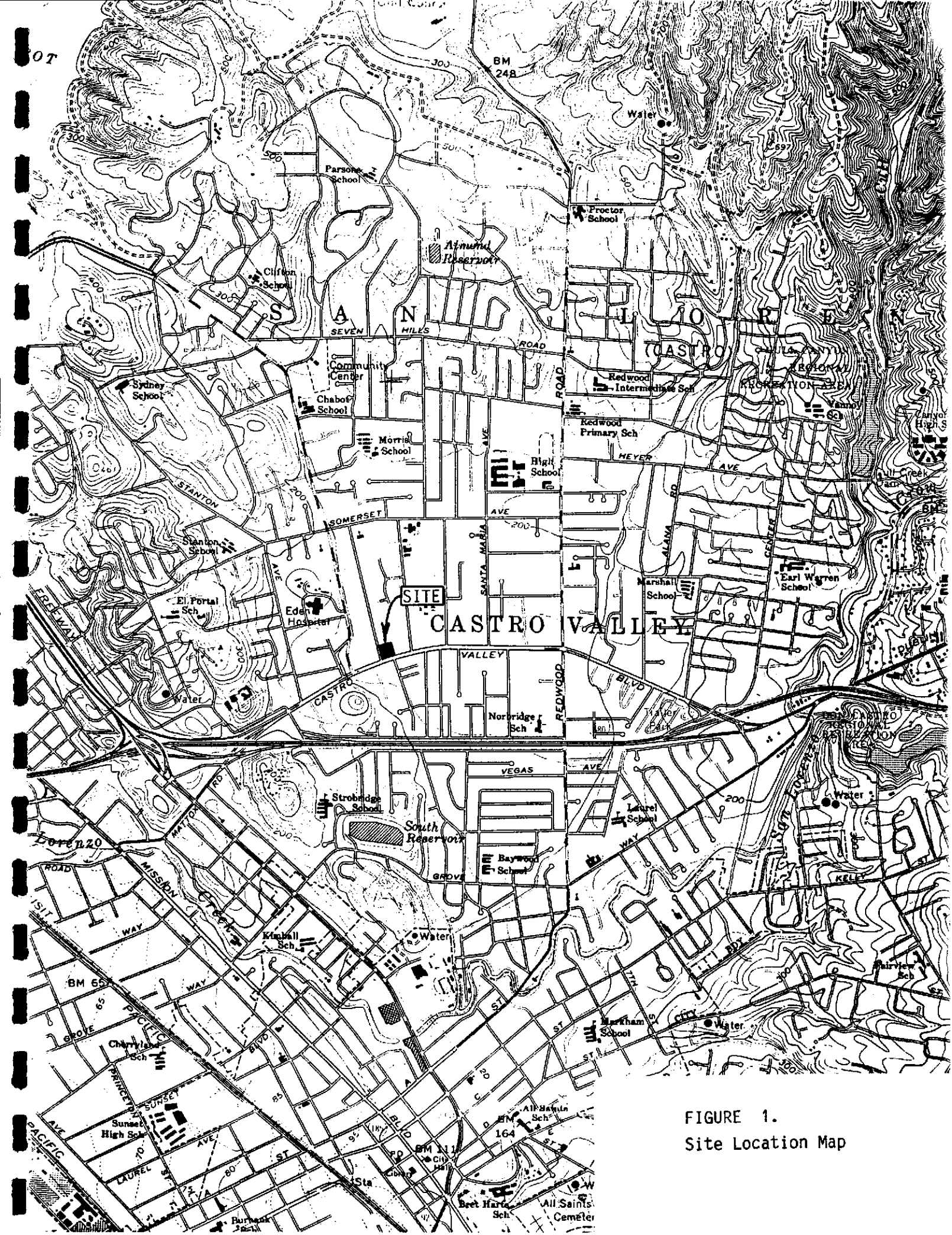


FIGURE 1.
Site Location Map

indicated no detectable of concentrations of Diesel, Gasoline, Benzene, Oil & Grease, Halogenated Volatile Organics (EPA 8010), or Semi-Volatile Organics (EPA 8270). A groundwater sample was collected from the tank excavation and was subsequently analyzed. The results of laboratory analyses indicated no detectable of concentrations of Diesel, Gasoline, Benzene, Oil & Grease, Halogenated Volatile Organics (EPA 601), or Extractable Organics (EPA 625). Soil samples collected from the ~~spoils~~ soil pile indicated the presence of Gasoline at concentrations of up to 1.4 mg/kg (ppm), and Oil & Grease at concentrations of up to 24 mg/kg (ppm). soil pile not tank Excavation

Analytical results and other data pertaining to the previous underground tank removals are included in Attachment A.

II. SITE DESCRIPTION

Vicinity Description and Hydrogeologic Setting

The location of the site is shown on the site location map (Figure 1). The soils beneath the site consist of Quaternary Alluvium overlying uplifted Cretaceous Marine deposits that comprise the surrounding San Leandro Hills (Geologic Map of California, San Francisco Sheet, State of California Division of Mines and Geology, 1980). During the borings for the well installations, varying amounts of clay, sand, gravel, siltstone and claystone were encountered.

Based upon the surface topography, as well as the various hydrologic features shown on the vicinity map, the general regional shallow groundwater can be expected to flow from the San Leandro Hills to the north and to the east of the site (areas of groundwater recharge) and move toward San Lorenzo Creek to the south of the site (area of discharge). The placement of the monitoring wells was based upon this assumption of the groundwater flow direction, and the actual flow direction determination from water level data is discussed in Section IV of this report.

Site Description

A map of the site is shown in Figure 2. This map shows the layout of the facility, along with the locations of the previous tank excavation. At the present time, the entire site is covered by asphalt or concrete pavement.

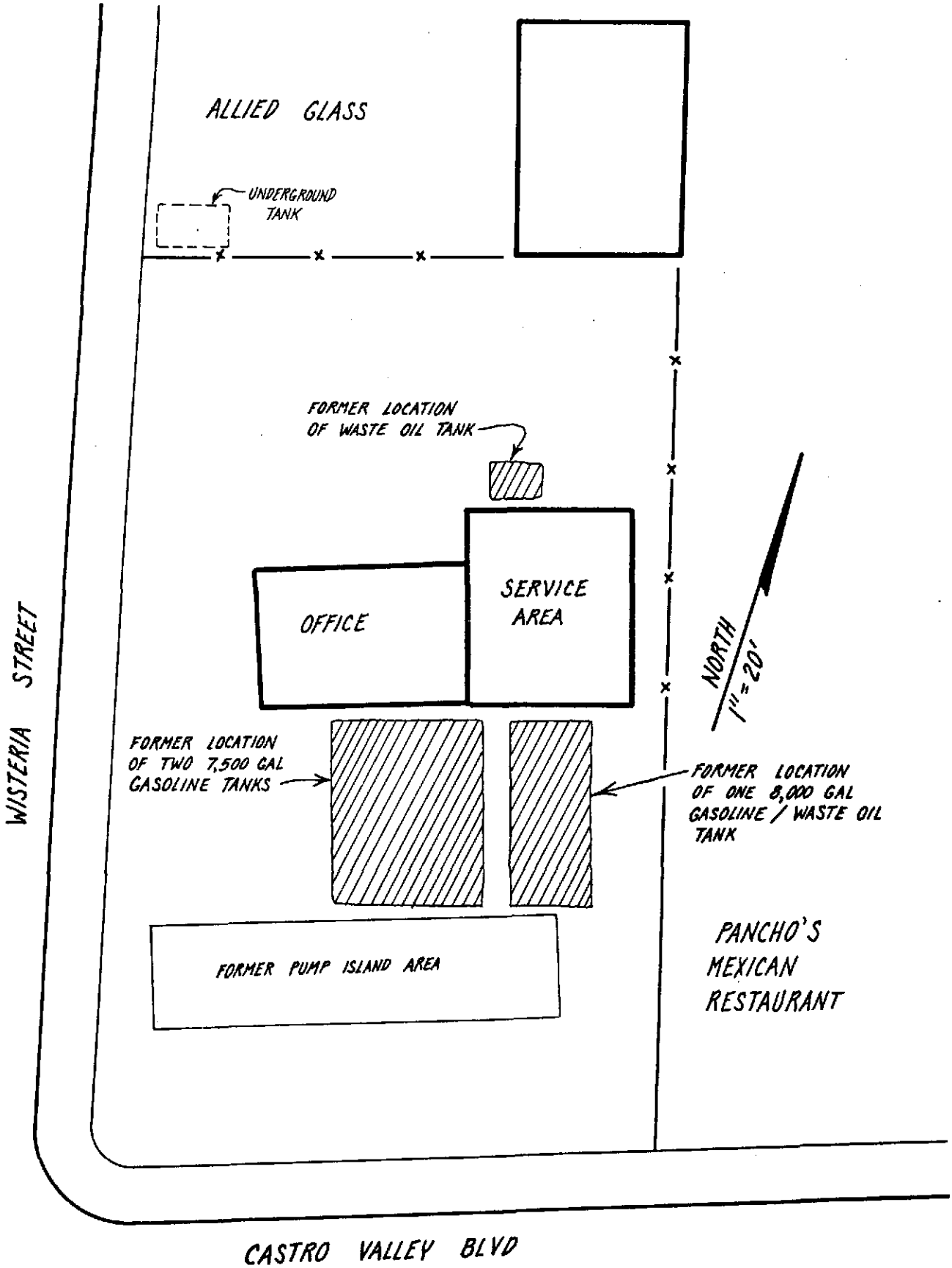


FIGURE 2.
Site Map.

III. FIELD WORK

Monitoring Well Installations

The locations of the monitoring wells are shown in Figure 3. The locations were selected based upon 1) the expected shallow groundwater flow direction, and 2) what is believed to be good spacing between data points in order to achieve reasonable plume definitions of any contaminants that may be present in the shallow groundwater beneath the site.

On May 12, 1992, the three shallow groundwater monitoring wells were installed on the site (wells MW-1, MW-2, and MW-3). Each well was installed with a truck-mounted drill rig using 8-inch hollow-stem augers. The borings were drilled by Gregg Drilling, Concord, CA. During the drilling for the monitoring wells, soil samples for chemical analyses were collected at 5-foot intervals until a saturated zone was encountered. The ends of one brass liner from each drive were sealed with teflon film, over which was placed a plastic end-cap. The end-cap was then sealed onto the brass tube with clean plastic adhesive tape. All samples were immediately placed on ice, then transported under chain-of-custody to the laboratory upon completion of the field work.

Wells MW-1 and MW-3 were cased with 15 feet of 2-inch PVC slotted screen pipe (0.01" slots) and completed to a depth of 25 feet below the ground surface. Well MW-2 was cased with 10 feet of 2-inch PVC slotted screen pipe (0.01" slots) and completed to a depth of 20 feet below the ground surface.

The annular spaces of wells MW-1, MW-2 and MW-3 were packed with #2/12 Monterey sand to approximately two feet above the

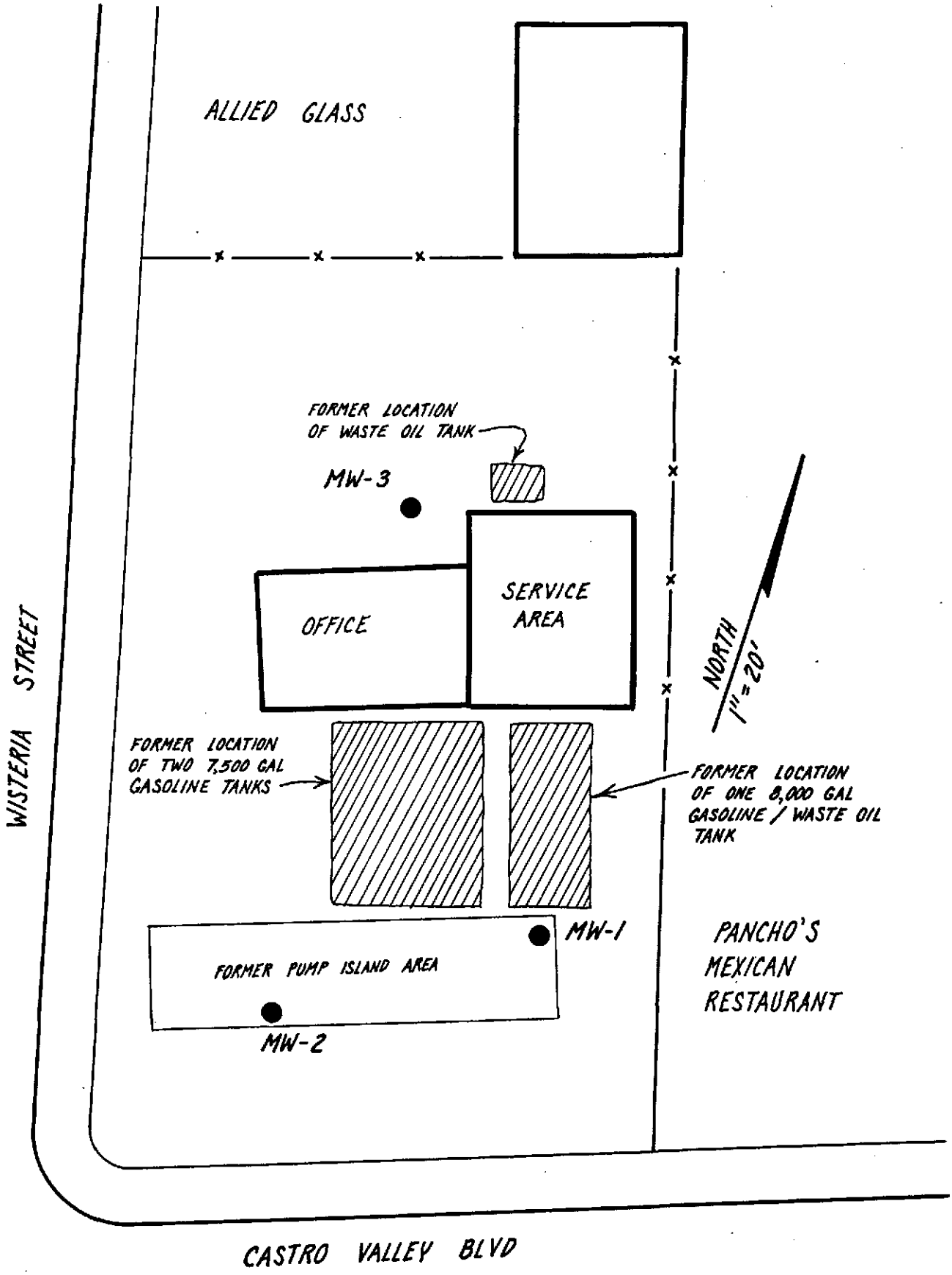


FIGURE 3.
Locations of Shallow Groundwater Monitoring Wells.

top of the screened section. Approximately one foot of wetted bentonite pellets were placed upon each sand pack, followed by a neat cement grout seal up to the ground surface. Each well was fitted with a water-tight locking cap and a water-tight steel traffic lid.

Well construction diagrams for the monitoring wells are included in Attachment B. Also included in Attachment B is a copy of the well permit issued by Zone-7, Alameda County Flood Control and Water Conservation District.

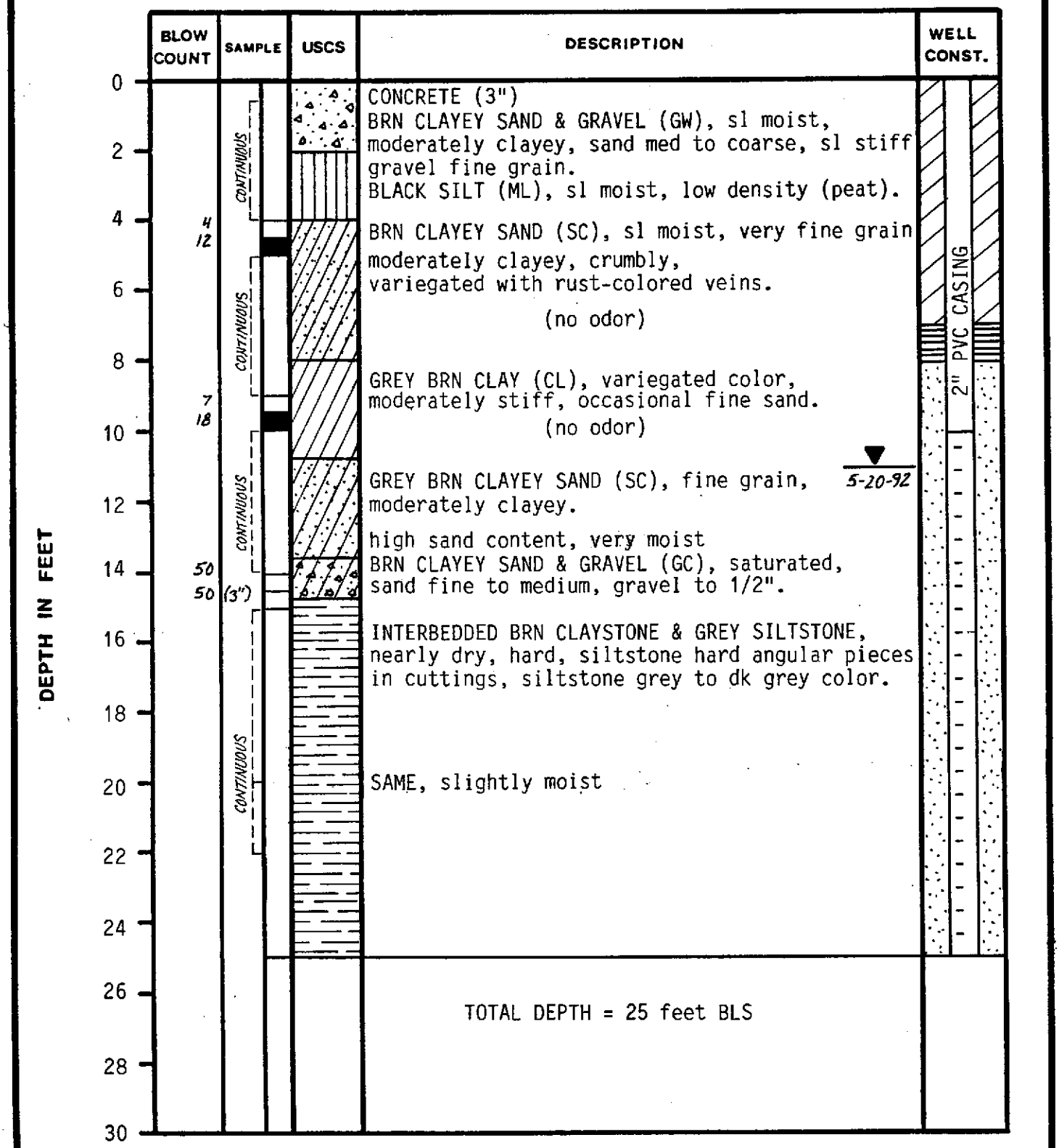
Boring Logs

All of the soil and monitoring well borings were logged in the field by Gary Aguiar, Registered Civil Engineer #34262. The boring logs for the three monitoring wells are shown as Figures 4, 5, and 6.

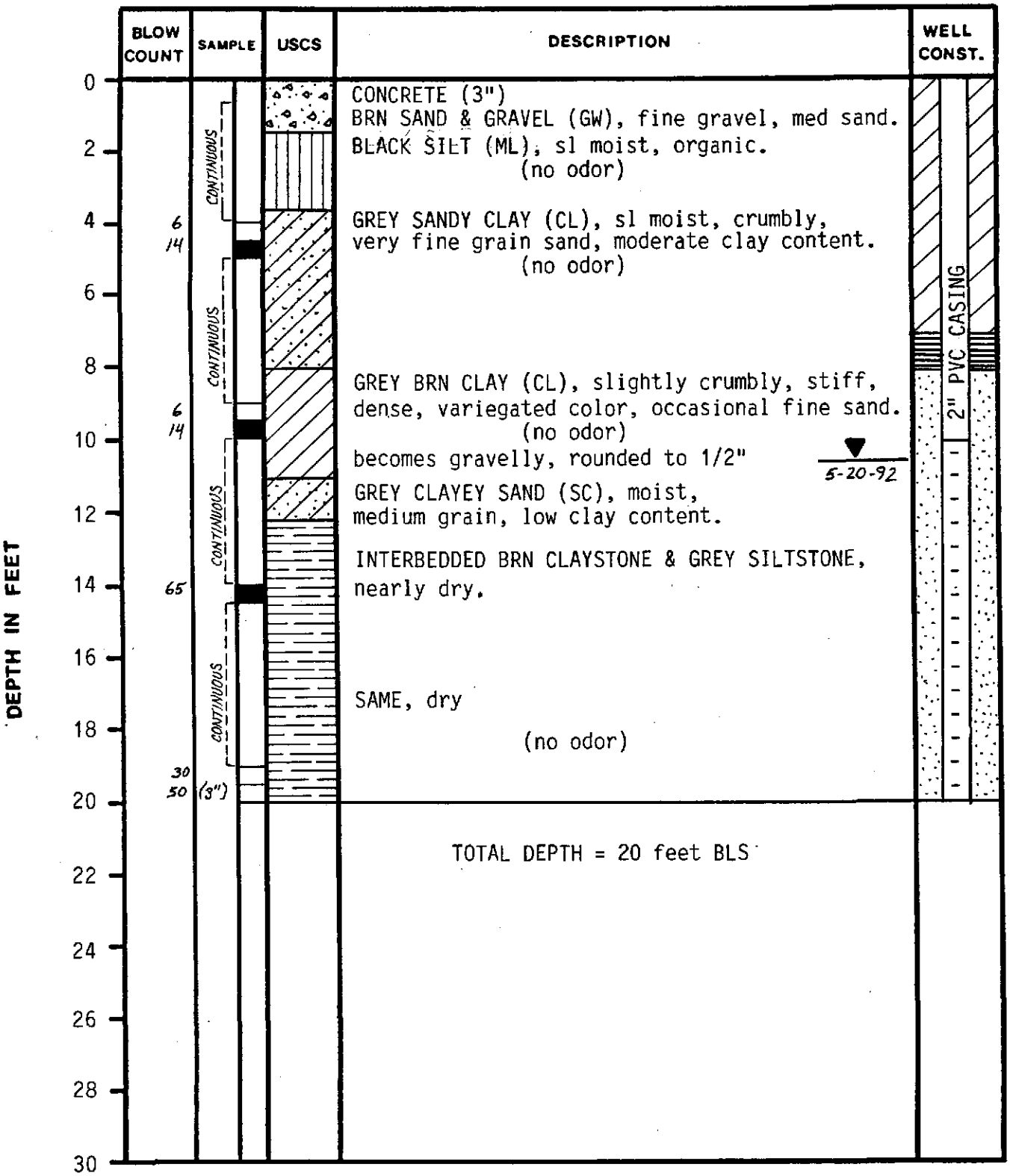
Monitoring Well Sampling

On May 18, 1992, the newly installed monitoring wells MW-1, MW-2 and MW-3 were developed. During the development of each well, groundwater was pumped using a teflon bailer. During the well development, each well was periodically surged using a hand-operated surge block in an attempt to remove silt and thereby achieve good well development.

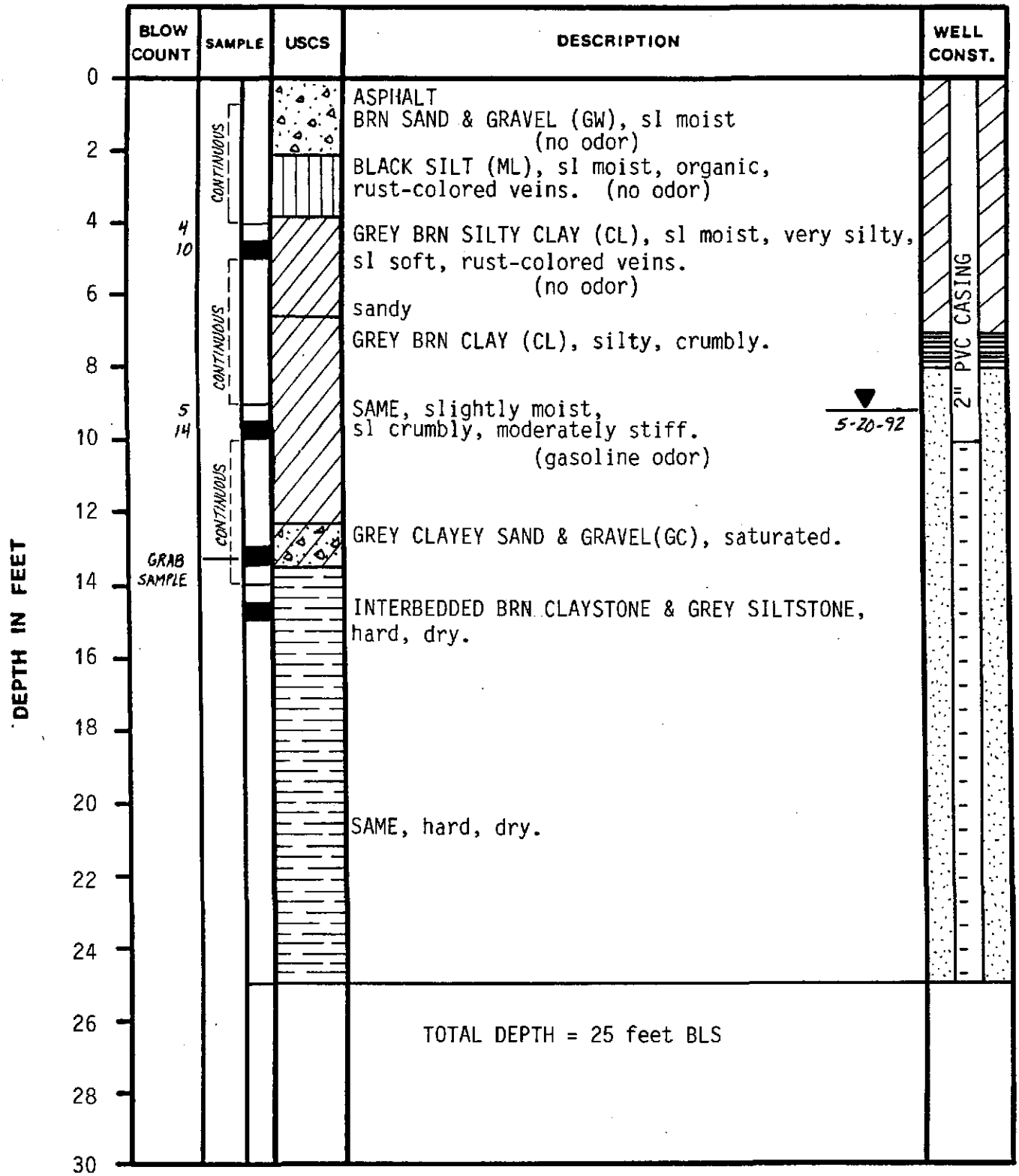
Prior to groundwater sampling on May 20, 1992, each well was purged by bailing approximately 10 casing volumes of water. Field conductivity, temperature, and pH meters were present on-site during the monitoring well sampling. As the purging process proceeded, the three parameters were monitored.



HAGEMAN - AGUIAR, INC.	LOG OF MONITORING WELL MW-1 Quality Tune-Up 2780 Castro Valley Blvd, Castro Valley, CA	FIGURE 4
DATE May 12, 1992	PROJECT NO.	
TOC ELEVATION 163.70	EQUIPMENT 8" Hollow Stem Auger	



HAGEMAN - AGUIAR, INC.	LOG OF MONITORING WELL MW-2 Quality Tune-Up 2780 Castro Valley Blvd, Castro Valley, CA	FIGURE 5
DATE May 20, 1992	PROJECT NO.	
TOC ELEVATION 163.33 MSL	EQUIPMENT 8" Hollow Stem Auger	



HAGEMAN - AGUIAR, INC.	LOG OF MONITORING WELL MW-3 Quality Tune-Up 2780 Castro Valley Blvd, Castro Valley, CA	FIGURE 6
DATE May 20, 1992	PROJECT NO.	
TOC ELEVATION 163.35 MSL	EQUIPMENT 8" Hollow Stem Auger	

Purging continued until readings appeared to have reasonably stabilized. After the water level in the well had attained 80% or more of the original static water level, a groundwater sample was collected using a clean teflon bailer. The water samples were placed inside appropriate 40 mL VOA vials and 1 liter amber bottles free of any headspace. The samples were immediately placed on crushed ice, then transported under chain-of-custody to Priority Environmental Laboratory in Milpitas by the end of the work day.

At the time each monitoring well was sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear teflon bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample.

Copies of the monitoring development and sampling logs are included as Attachment C.

Decontamination

Prior to the installation of each well, all drilling equipment, including augers, drill stem, and split barrel samplers, was steam-cleaned.

Waste Generation

All drill cuttings were stockpiled on-site and covered with plastic sheeting, until the results of laboratory analyses were obtained. Depending upon these results, the cuttings

should be disposed of as either a non-hazardous waste, or else transported as a hazardous waste under proper manifest to an appropriate TSD facility. In the case of contaminated soil, it may be possible to remove residual petroleum hydrocarbons concentrations by aeration under permit from the Bay Area Air Quality Management District (BAAQMD), and thereby facilitate disposal as a non-hazardous waste. The disposal of the drill cuttings is the responsibility of the property owner (waste generator), and is beyond the scope of work as described in this report.

All water removed from the wells during development and purging was drummed and stored on-site until the results of laboratory analyses were obtained. Based upon these results, the water should be sewered (if possible) as a non-hazardous liquid waste in accordance with local sewering agency permit requirements, or else it should be transported as a hazardous liquid waste under proper manifest to an appropriate TSD facility for treatment and disposal. The disposal of wastewater is the responsibility of the property owner (waste generator), and is beyond the scope of work as described in this report.

IV. RESULTS OF WATER LEVEL MEASUREMENTS

Shallow Groundwater Flow Direction.

Shallow water table elevations were measured on May 20, 1992. These measurements are shown in Table 1. Figure 7 presents a contour map for the shallow groundwater table beneath the site. As shown in this figure, the data from these monitoring wells indicate that the shallow groundwater flow beneath the site is in the southeasterly direction.

Shallow Water Table Hydraulic Gradient

Figure 7 presents the contour map for the shallow groundwater table beneath the site. As shown in this figure, the shallow groundwater table beneath the site appears to be relatively flat, with a calculated hydraulic gradient of dH/dL = 1'/40' = 0.025.

TABLE 1.

Shallow Water Table Elevations
May 20, 1992

Well	Top of Casing Elevation (feet)	Depth to Water (feet)	Water Table Elevation (feet)
MW-1	163.70	11.03	152.67
MW-2	163.33	10.68	152.65
MW-3	163.35	9.07	154.28

Datum is Alameda County Benchmark Anita-CVB.
Standard surveyor brass disc on top-of-curb over drop inlet on Anita Avenue.
Elevation = 168.04 MSL

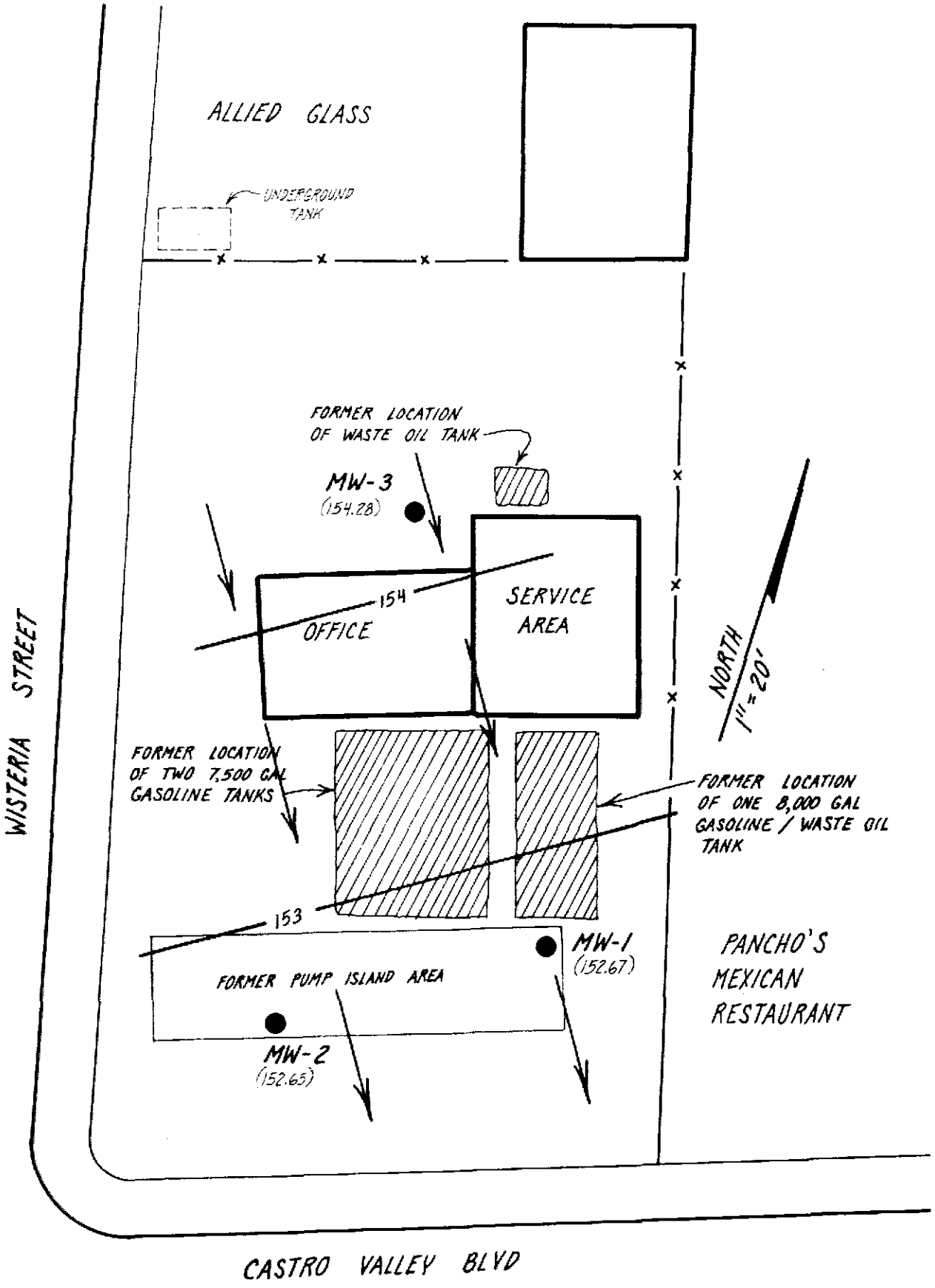


FIGURE 7. Shallow Groundwater Table Contour Map (May 20, 1992).

V. ANALYTICAL RESULTS

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures.

All soil samples were analyzed for 1) total petroleum hydrocarbons as Diesel (EPA method 8015), 2) total petroleum hydrocarbons as Gasoline (EPA method 8015), 3) Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA method 8020), and 4) Oil & Grease.

All Groundwater samples were analyzed for 1) total petroleum hydrocarbons as Diesel (EPA method 8015), 2) total petroleum hydrocarbons as Gasoline (EPA method 8015), 3) Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA method 8010), 4) Oil & Grease, 5) Halogenated Volatile Organics (EPA method 601), 6) Extractable Organics (EPA method 625), and 7) LUFT Metals (Cd, Cr, Pb, Ni, Zn).

Analytical Results: Soil

Table 2 presents the results of the laboratory analysis of the soil samples collected during the monitoring well installations. A copy of the laboratory certificate for the soil sample analyses is included in Attachment D.

As shown in Table 3, there appears to be very low residual Gasoline concentrations in the soil at the 10-foot depth at the location of well MW-2, and somewhat elevated Gasoline concentrations in the soil at the 10-foot depth at the location of well MW-3. TPH as Gasoline and Benzene were

TABLE 2.

Soil Sampling Results

Boring	Depth (feet)	TPH as Gasoline (mg/Kg)	TPH as Kerosene (mg/Kg)	TPH as Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl-benzene (ug/Kg)	Total Xylenes (ug/Kg)	Motor Oil (mg/Kg)	Oil & Grease (mg/Kg)
MW-1	05	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	05	ND	ND	ND	ND	5.4	ND	22	ND	ND
	10	6.6	ND	ND	8.6	12	36	92	ND	ND
	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	05	ND	ND	ND	ND	ND	ND	ND	ND	ND
	10	430	8.5	ND	810	440	1,700	4,800	ND	32
	13	50	ND	ND	27	17	77	160	ND	16
	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
Detection Limit		1.0	1.0	1.0	5.0	5.0	5.0	5.0	10	10

ND = Not Detected

detected in the soil at Well MW-3 at concentrations of up to 430 mg/kg (ppm) and 810 µg/kg (ppb), respectively.

Analytical Results: Groundwater

Tables 3, 4, 5 and 6 present the results of the laboratory analysis of the groundwater samples collected from monitoring wells MW-1, MW-2, and MW-3. A copy of the laboratory certificates for the water sample analyses are included in Attachment E.

As shown in Table 3, Gasoline concentrations were detected in the samples collected from wells MW-1 and MW-3 at the relatively low concentrations of 260 µg/L (ppb) and 4,200 µg/L (ppb), respectively. In addition, Benzene was detected in the sample collected from well MW-3 at a concentration of 4.5 µg/L (ppb).

As shown in Table 4, no detectable concentrations of Cadmium, Chromium, Lead, Nickel or Zinc were found in any of the shallow groundwater samples.

As shown in Table 5, no detectable concentrations of any Halogenated Volatile Organic Compounds (EPA 601) were found in any of the shallow groundwater samples.

As shown in Table 6, no detectable concentrations of any Base/Neutral Extractable Organics (EPA 8270) were found in any of the shallow groundwater samples.

TABLE 3.

Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	TPH as Kerosene (ug/L)	TPH as Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	Motor Oil (mg/L)	Oil & Grease (mg/L)
MW-1	05-20-92	260	ND	ND	ND	ND	4.4	9.0	ND	ND
MW-2	05-20-92	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	05-20-92	4,200	ND	ND	4.5	1.2	13	43	ND	ND
Detection Limit		50	50	50	0.5	0.5	0.5	0.5	0.5	0.5

ND = Not Detected

TABLE 4.

Shallow Groundwater Sampling Results

Inorganics Analysis

Well	Date	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)	Specific Conductance (umhos)
MW-1	05-20-92	ND	ND	ND	ND	ND	700
MW-2	05-20-92	ND	ND	ND	ND	ND	1,000
MW-3	05-20-92	ND	ND	ND	ND	ND	1,000
Detection Limit		0.05	0.05	0.05	0.05	0.05	

ND = Not Detected

TABLE 5.

Shallow Groundwater Sampling Results

Halogenated Volatile Organics by EPA Method 601

Well	Date	Tetrachloro-ethene (ug/L)	1,1,1-Trichloro-ethane (ug/L)	Trichloro-ethene (ug/L)	1,1-Dichloro-ethene (ug/L)	Chloroform (ug/L)	Vinyl Chloride (ug/L)	Other Organics (ug/L)
MW-1	05-20-92	ND	ND	ND	ND	ND	ND	ND
MW-2	05-20-92	ND	ND	ND	ND	ND	ND	ND
MW-3	05-20-92	ND	ND	ND	ND	ND	ND	ND
Detection Limit		0.5	0.5	0.5	0.5	0.5	0.5	0.5

ND = Not Detected

TABLE 6.

Shallow Groundwater Sampling Results

Base/Neutral Extractable Organics by EPA Method 8270

Well	Date	Naphthalene (ug/L)	Other Organics (ug/L)
MW-1	05-20-92	ND	ND
MW-2	05-20-92	ND	ND
MW-3	05-20-92	37	ND
Detection Limit		10	10 to 50

ND = Not Detected

VI. DATA ANALYSIS

Figure 8 shows lines of equal concentration for Gasoline in the shallow groundwater. Since these lines have been drawn based upon relatively limited data (three data points), the plot represents only a small portion of the respective concentration plume. The plot does suggest, however, that the dissolved concentrations are centered somewhere around the rear of the service/office building (vicinity of well MW-3). In addition, the dissolved concentrations appear to have "spread out" toward the southeast, consistent with the mechanism of longitudinal dispersion in the direction of the shallow groundwater flow.

It should be noted that the results of the soil sampling conducted during the well installations (Table 2) indicated the presence of significant Gasoline and Benzene concentrations at the location of well MW-3 at the shallow water table. The 5-foot sample at that location showed no detectable concentrations of any petroleum constituents, and indicates that the presence of soil contamination is due to subsurface migration of petroleum constituents on top of the shallow groundwater table beneath the site. Any free-product migration can be expected to occur within the capillary fringe above the shallow water table.

Although the nearby presence of the former underground waste oil tank is a likely source for the Gasoline concentrations in the shallow groundwater (as shown in Figure 8), one cannot rule out the possibility of migration of Gasoline contamination from the existing underground storage tank located on the adjoining Allied Glass property. Its location with respect to the concentration contours is consistent with

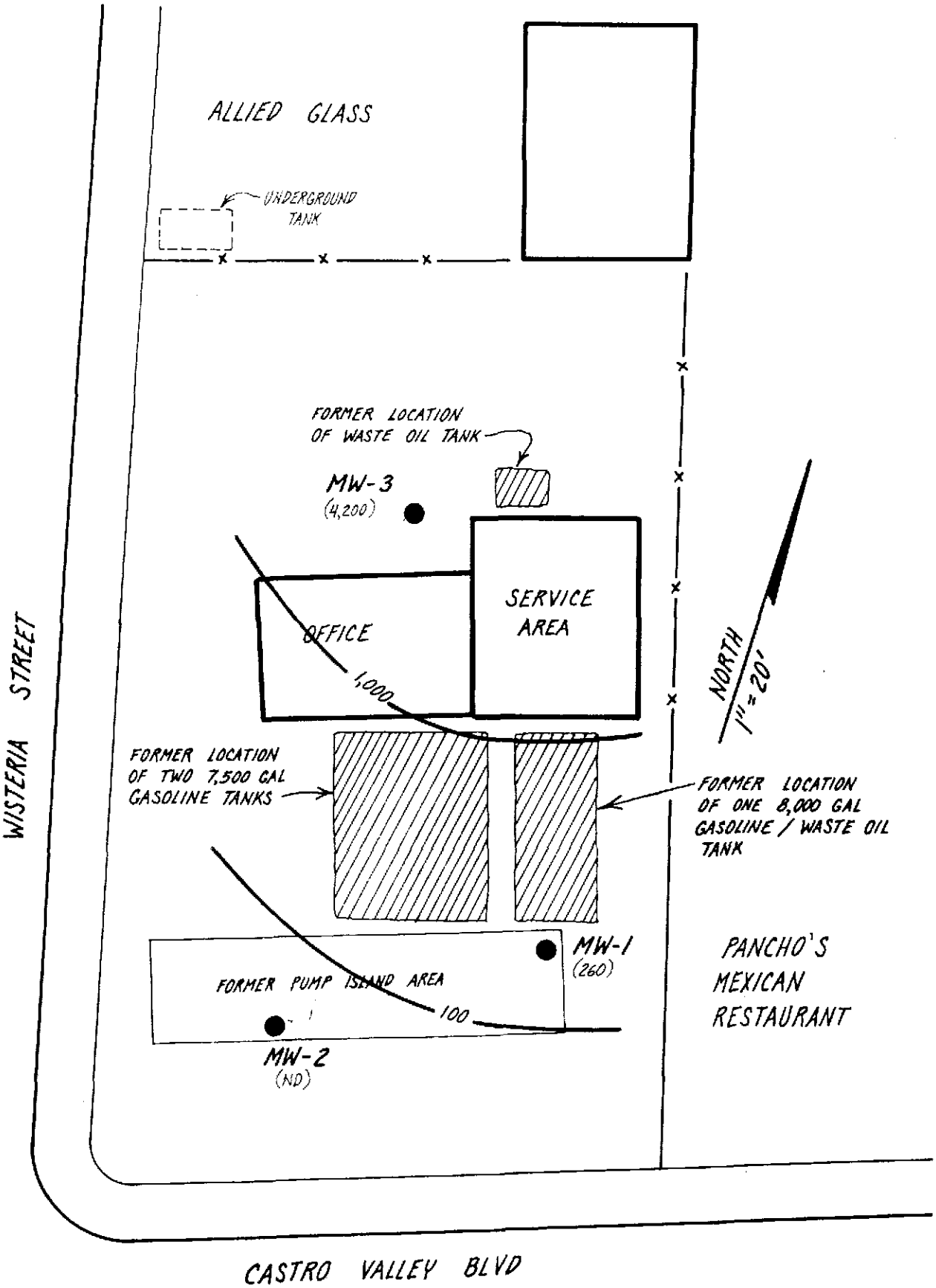


FIGURE 8. Lines of Equal Concentration of Gasoline in ug/L (ppb) in the Shallow Groundwater (May 20, 1992).

the measured shallow groundwater flow direction beneath the subject site.

VII. CONCLUSIONS

1. Shallow groundwater is present beneath the site at a depth of approximately 9 to 11 feet below the ground surface.

2. The data indicate that the shallow groundwater flow is in the southeasterly direction.

3. There appears to be very low residual Gasoline concentrations in the soil at the 10-foot depth at the location of well MW-2, and somewhat elevated Gasoline concentrations in the soil at the 10-foot depth at the location of well MW-3. The data indicate that the presence of soil contamination is due to subsurface migration of petroleum constituents on top of the shallow groundwater table.

4. TPH as Gasoline and Benzene were detected in the soil at Well MW-3 at concentrations of up to 430 mg/kg (ppm) and 810 µg/kg (ppb), respectively.

5. TPH as Gasoline was detected in the shallow groundwater samples collected from wells MW-1 and MW-3 at the relatively low concentrations of 260 µg/L (ppb) and 4,200 µg/L (ppb), respectively.

6. Benzene was detected in the shallow groundwaetr sample collected from well MW-3 at a concentration of 4.5 µg/L (ppb).

7. No detectable concentrations of Cadmium, Chromium, Lead, Nickel or Zinc were found in any of the shallow

groundwater samples.

8. No detectable concentrations of any Halogenated Volatile Organic Compounds (EPA 601) were found in any of the shallow groundwater samples.

9. No detectable concentrations of any Base/Neutral Extractable Organics (EPA 8270) were found in any of the shallow groundwater samples.

10. Analysis of concentration data indicates that the dissolved Gasoline concentrations are centered somewhere around the rear of the service/office building (vicinity of well MW-3).

11. The presence of the former underground waste oil tank is a likely source for the Gasoline concentrations in the shallow groundwater.

12. The possibility of migration of Gasoline contamination from the existing underground storage tank located on the adjoining Allied Glass property cannot be ruled out at this time.

VIII. RECOMMENDATIONS

The results of the investigation indicate that some residual gasoline contamination remains in the shallow groundwater beneath the subject site.

Although the presence of the former underground waste oil tank has been identified as a likely source for the Gasoline concentrations in the shallow groundwater, the possibility of the existing underground storage tank located on the adjoining Allied Glass property is very real, and cannot be ruled out at this time. It is recommended that the existence of this potential off-site source be investigated, either by regulatory agency file research, or by field inspection (with the assistance of Alameda County Health personnel). Should the presence of this underground tank prove to be a very possible source of contamination, an additional monitoring well would be required at the northerly property line of the subject site in order to provide definitive proof of on-site migration of Gasoline contamination.

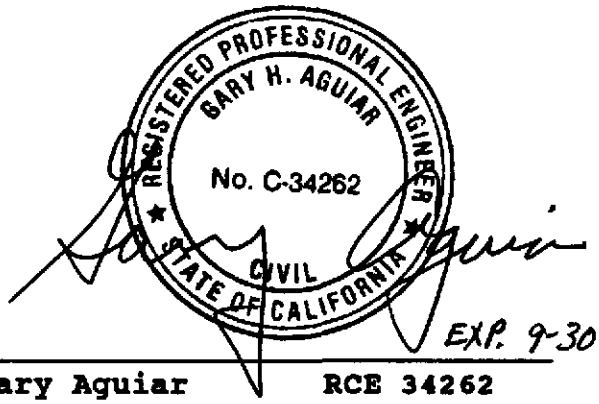
In the event that the Allied Glass tank is found to be non-existent, or no subsurface contamination is indicated at that location, then further subsurface investigation (i.e., soil sampling) may be required at the location of the former underground waste oil tank.

It is recommended that quarterly monitoring of wells MW-1, MW-2, and MW-3 be carried out over the course of at least one year. If contamination levels remain stable or decline, a request will be made to the Alameda County Health Agency for permission to either reduce the frequency of monitoring or else discontinue monitoring and properly abandon the

existing monitoring wells. NOTE: if residual soil contamination due to the presence of either the former waste oil tank (on-site) or the Allied Glass tank (off-site) is not remediated, the current petroleum concentrations in the shallow groundwater can be expected to persist for much longer than one year.

REPORT OF SOIL AND GROUNDWATER INVESTIGATION
QUALITY TUNE-UP
2780 Castro Valley Blvd, Castro Valley, CA.

July 17, 1992



EXP. 9-30-95

Gary Aguiar RCE 34262

Bruce Hageman

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, Assistant Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Division
80 Swan Way, Rm. 200
Oakland, CA 94621
(510) 271-4320

STID 969

April 6, 1992

Mr. Larry Armstrong
Quality Tune-Up Shops - Side B Corporation
286 E. Hamilton Avenue
Campbell, CA 95008

RE: PRELIMINARY SITE ASSESSMENT

Dear Mr. Armstrong:

The Department is in receipt and has completed review of the March 5, 1992 Hageman-Aguiar, Inc. (HAI) preliminary site assessment (PSA) proposal which outlines plans for the initial installation of three (3) ground water monitoring wells at the subject site. This proposal has been accepted with following provisions:

1) As discussed with HAI's Mr. Gary Aguiar, the southwestern-most well depicted in Figure 3 of the March 5 proposal should be repositioned south of the former dispenser island.

2) Soil samples collected during boring advancement should also be collected at any significant changes in lithology and obvious contamination, in addition to every 5 feet of boring depth.

3) Allow a minimum of 24 hours to pass between well development and ground water sampling.

At this time, please adhere to a **quarterly** schedule of ground water sampling and **monthly** water elevation monitoring. Summary reports shall be submitted **quarterly** until this site is eligible for final "sign off" by the RWQCB. Such reports are due the first day of the second month of each subsequent quarter (i.e., May 1, August 1, November 1, and February 1).

Please notify this office when field activities are slated to begin. I may be reached at 510/271-4320.

Sincerely,

Scott O. Seery, CHMM
Senior Hazardous Materials Specialist

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
Gil Jensen, Alameda County District Attorney's Office
Rich Heitt, RWQCB
Howard Hatayama, DTSC
Bob Bohman, Castro Valley Fire Department
Gary Aguiar, Hageman-Aguiar

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

DEPARTMENT OF ENVIRONMENTAL HEALTH
Hazardous Materials Program
80 Swan Way, Rm. 200
Oakland, CA 94621
(415)

Certified Mailer #

November 7, 1991

Mr. Larry Armstrong
Quality Tune-Up Shops - Side B Corporation
286 E. Hamilton Avenue
Campbell, CA 95008

RE: PRELIMINARY SITE ASSESSMENT PROPOSAL REQUEST; QUALITY TUNE-UP SHOP #30, 2780 CASTRO VALLEY BLVD., CASTRO VALLEY

Dear Mr. Armstrong:

The Alameda County Environmental Health Department, Hazardous Materials Division, has completed a review of reports and other facts associated with closure June 11, 1991 of one (1) 8000 gallon underground storage tank (UST) from the referenced Castro Valley facility, and the analyses of both soil and ground water samples collected following closure. The noted tank was used most recently to store waste oil, although it had reportedly been used previously for storing gasoline. This Division has also reviewed information reflecting the 1987 closure of three (3) other USTs from this same site. Be advised that the opinions and decisions expressed in this letter were reached with concurrence from the San Francisco Bay Regional Water Quality Control Board (RWQCB).

During the recent UST closure, ground water was noted welling into the UST pit at a depth of approximately 11.5 feet below grade. A slight product odor was detected emanating from the UST pit. Of the two (2) soil samples collected from native material, one from below each end of the tank, that sample collected from the south (fill) end of the tank had obvious product odor, and both samples were saturated. Further, ground water at the south end of the pit exhibited apparent product sheen. Ground water samples were collected from the ground water which exhibited this apparent product sheen.

On June 20, 1991, Mr. Matt Mintner of Minter & Fahy Construction Company, Inc., FAXed copies of the laboratory results reporting the analyses performed upon the samples collected. The analyses results reflect much lower concentrations of target compounds than what were expected based upon observations made in the field at the time of closure. Because the results were inconsistent with field observations, Chromalab, Inc., the certified laboratory performing the analyses, was contacted by this Department and requested to report the condition of the samples when submitted.

Chromalab's report, dated June 25, 1991 and authored by Mr. Eric Tam, Lab Director, indicated that the original soil and water samples were received in good condition on June 11, 1991: refrigerated and no head space. The samples were checked in under Chromalab File # 0691072. On the next morning (June 12), Mr. Kieth Jay of Hageman-Aguiar, the consultant collecting samples, phoned Chromalab to request that the initial water sample be placed on "hold." Apparently Mr. Jay delivered another water sample to Chromalab that same day, and requested that this new sample replace the original one. This sample was also in acceptable condition, and was checked in under Chromalab File # 0691078. It is this sample which was analyzed and reported. Mr. Tam notes that the original water sample was inspected by him personally after the Department's inquiry, and of the two 1-liter bottles, one of them had an obvious hydrocarbon odor and the other seemed "relatively clean."

Chromalab's policy is to hold all submitted samples for one month (unless requested otherwise by the client). On June 28, 1991, I contacted Mr. Bruce Hageman of Hageman-Aguiar and requested that the initial water sample be analyzed for total petroleum hydrocarbons as gasoline and diesel (TPH-G/D) and for total oil and grease (TOG). I then contacted Mr. Tam to inform him that Hageman-Aguiar would be contacting him to request the analysis of the initial water sample. On August 16, 1991, an attempt was made to contact Mr. Hageman to learn of the results of the analyses of the noted water sample. Mr. Hageman was not in his office when the call was placed. A message was left with his answering service. To date, this Department has not been contacted by Mr. Hageman regarding this issue.

On November 6, 1991, Chromalab's Mr. Tam was contacted by this Department to determine whether the noted water sample had been analyzed, and to learn of the results. Mr. Tam indicated that he was never contacted by Hageman-Aguiar and requested to analyze the sample. Hence, as is consistent with Chromalab policy, the noted sample has been destroyed and was never analyzed.

The Department has been in contact with 4 M Construction of Madera, CA, the contractor which performed the previous (1987) UST closures, since August 1991. We have been in contact with 4 M because you have apparently not been successful in your efforts to receive information from them which documents the results of these earlier tank closures. The Department finally received closure information from 4 M on November 6, 1991. This information reveals that three (3) USTs, two gasoline and one waste oil, were closed at the subject site on or around February 19, 1987. Soil and ground water samples were collected, and subsequently analyzed by Trace Analysis Laboratory, Inc. Of the seven soil samples collected, only "extractable

hydrocarbons" were detected in those soil samples collected proximal to the waste oil tank. No other analytes were detected. However, the ground water sample exhibited 26 mg/l of volatile hydrocarbons, 420 ug/l of benzene, 2000 ug/l toluene, and 9400 ug/l of xylene, all constituents of gasoline.

The RWQCB requires additional environmental investigations to be performed when hydrocarbon compounds are detected in soil samples collected at or below the seasonal high ground water level. Should ground water be impacted, as determined by water samples collected at the time of closure, an investigation is further warranted. Both of these scenarios indicate that an "unauthorized release" has occurred.

Ground water and soils at or below the seasonal high water level have been impacted at the subject site, as documented during both the 1987 and 1991 UST closures. Hence, further investigation is required. The purpose of this investigation is to determine the lateral and vertical extent, and severity, of soil and ground water contamination which may have resulted from this unauthorized release.

Such an investigation shall be in the form of a **Preliminary Site Assessment**, or PSA. The information gathered by the PSA will be used to determine an appropriate course of action to remediate the site, if deemed necessary. The PSA must be conducted in accordance with the RWQCB Staff Recommendations for the Initial Evaluation and Investigation of Underground Tanks. The major elements of such an investigation are summarized in the attached Appendix A.

In order to proceed with a site investigation, you should obtain professional services of a reputable environmental/geotechnical firm. Your responsibility is to have the consultant submit for review a proposal outlining planned activities pertinent to meeting the criteria broadly outlined in this letter and the attached Appendix A.

This Department will oversee the assessment and remediation on your site. Our oversight will include the review of and comment on work proposals and technical guidance on appropriate investigative approaches and monitoring schedules. The issuance of well drilling permits, however, will be through the Alameda County Flood Control and Water Conservation District, Zone 7. The RWQCB may choose to take over as lead agency if it is determined following the completion of the initial assessment that there has been a substantial impact upon ground water.

The PSA proposal is due within 45 days of the date of this letter, or by December 23, 1991. Once this proposal has been reviewed and approved, work should commence no later than January 23, 1992. The Department will continue to draw from your current deposit/refund account at the current rate of $67 per hour as time is dedicated to the project until the account is depleted, at which time additional monies will be requested.

A report must be submitted within 45 days after the completion of this phase of work at the site. Subsequent reports must be submitted quarterly until this site qualifies for final RWQCB "sign off". Such quarterly reports are due the first day of the second month of each subsequent quarter (i.e., May 1, August 1, November 1, and February 1).

The referenced initial and quarterly reports must describe the status of the investigation and must include, among others, the following elements:

- Details and results of all work performed during the designated period of time: records of field observations and data, boring and well construction logs, water level data, chain-of-custody forms, laboratory results for all samples collected and analyzed, tabulations of free product thicknesses and dissolved fractions, etc.
- Status of ground water contamination characterization
- Interpretation of results: water level contour maps showing gradients, free and dissolved product plume definition maps for each target component, geologic cross sections, etc.
- Recommendations or plans for additional investigative work or remediation

All reports and proposals must be submitted under seal of a California-Registered Geologist, -Certified Engineering Geologist, or -Registered Civil Engineer. Please include a statement of qualifications for each lead professional involved with this project.

Please be advised that this is a formal request for technical reports pursuant to California Water Code Section 13267 (b). Failure to respond or a late response could result in the referral of this case to the RWQCB for enforcement, possibly subjecting the responsible party to civil penalties to a maximum of $1,000 per day. Any extensions of the stated deadlines, or modifications of the required tasks, must be confirmed in writing by either this agency or

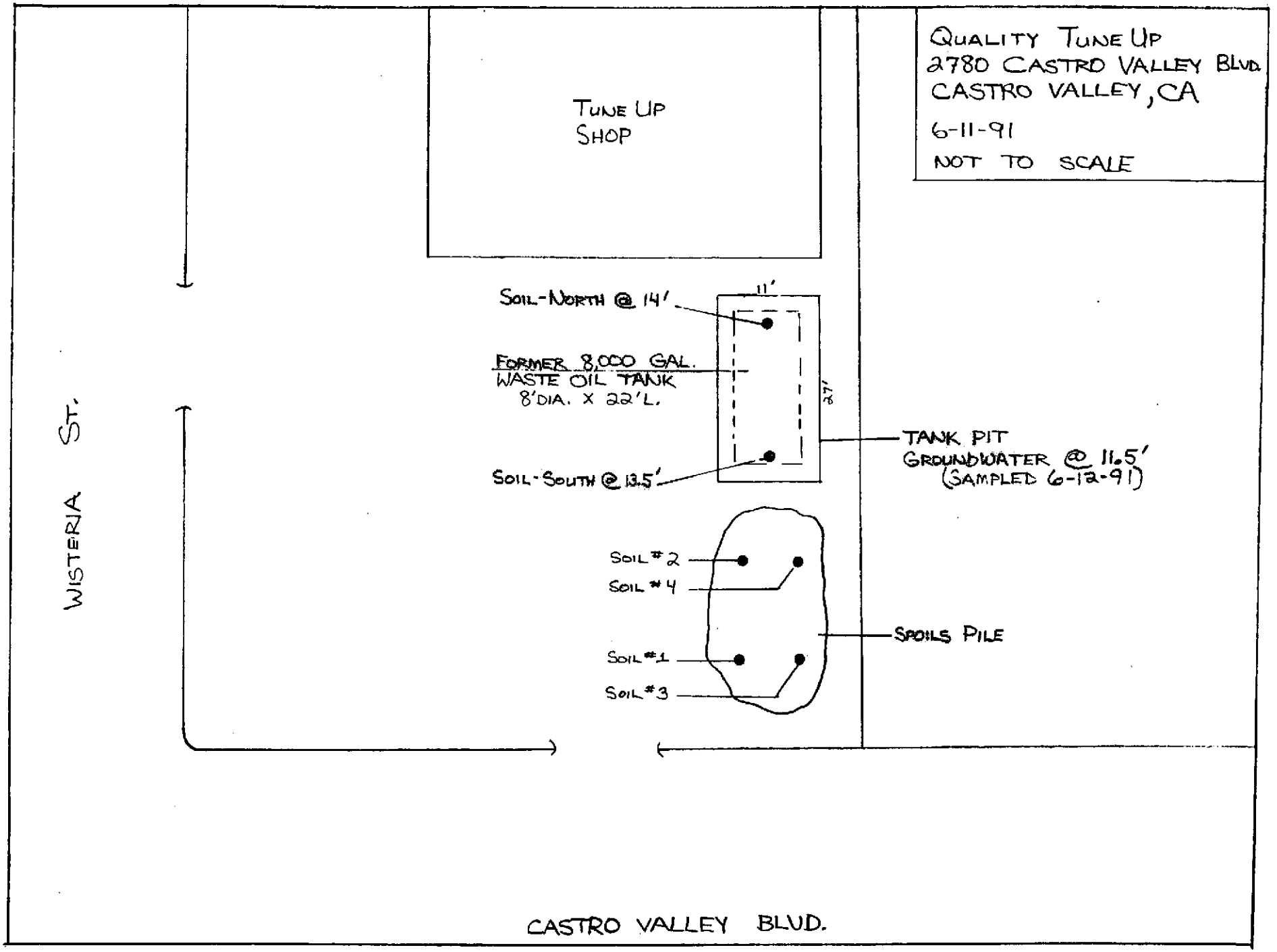
Should you have any questions about the content of this letter, please call me at 510/271-4320.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

enclosure

cc: Rafat A. Shahid, Assistant Agency Director, Environmental Health
[illegible], Chief, Hazardous Materials Division
[illegible], Alameda County District Attorney's Office
[illegible], RWQCB
[illegible], DTSC
[illegible], Castro Valley Fire Department
[illegible]


QUALITY TUNE UP
2780 CASTRO VALLEY BLVD.
CASTRO VALLEY, CA
6-11-91
NOT TO SCALE
TUNE UP SHOP
SOIL-NORTH @ 14'
11'
FORMER 8,000 GAL. WASTE OIL TANK
8' DIA. X 22' L.
27'
TANK PIT
GROUNDWATER @ 11.5'
(SAMPLED 6-12-91)
SOIL-SOUTH @ 13.5'
SOIL #2
SOIL #4
SOIL #1
SOIL #3
SPOILS PILE
WISTERIA ST.
CASTRO VALLEY BLVD.

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 17, 1991 ChromaLab File No.: 0691078

MINTER & FAHY CONSTRUCTION CO. Attn: Keith Jay / Matt Minter

RE: One water sample for Gasoline/BTEX, Diesel, Oil & Grease, Cadmium, Chromium, Lead, Nickel, and Zinc analyses

Project Name: QUALITY TUNEUP Project Location: Castro Valley
Date Sampled: June 12, 1991 Date Submitted: June 12, 1991
Date Extracted: June 17-18, 1991 Date Analyzed: June 17-18, 1991

RESULTS:

Sample No.	Gasoline (µg/l)	Diesel (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl Benzene (µg/l)	Total Xylenes (µg/l)
PIT WATER	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	88.5%	81.3%	92.8%	102.0%	98.9%	105.7%
DET. LIMIT	50	50	0.5	0.5	0.5	0.5
METHOD OF ANALYSIS	5030/ 8015	3510/ 8015	602	602	602	602

Sample No.	Oil & Grease (mg/l)	Cadmium (mg/l)	Chromium (mg/l)	Lead (mg/l)	Nickel (mg/l)	Zinc (mg/l)
PIT WATER	0.9	N.D.	N.D.	N.D.	N.D.	0.011
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	----	99.2%	103.2%	102.8%	104.1%	94.9%
DET. LIMIT	0.5	0.005	0.05	0.05	0.04	0.005
METHOD OF ANALYSIS	5520 B&F	7130	7190	7420	7590	7950

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Laboratory Director

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415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991 ChromaLab File # 0691078

Client: Minter & Fahy Const. Co. Attn: Matt Minter
Date Sampled: June 12, 1991 Date Submitted: June 12, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: PIT WATER
Method of Analysis: EPA 601 Detection Limit: 0.5 ug/l

COMPOUND NAME	ug/l	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	89.5% 90.1%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	90.4% 89.2%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	88.7% 85.7%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	87.2% 86.8%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

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Eric Tam
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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991 ChromaLab File # 0691078

Client: Minter & Fahy Const. Co. Attn: Matt Minter
Date Sampled: June 12, 1991 Date Submitted: June 12, 1991
Date Extracted: June 18, 1991 Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: PIT WATER
Method of Analysis: EPA 625 Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/L	Spike Recovery
PHENOL	N.D.	0.01	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.01	82.1% 79.6%
2-CHLOROPHENOL	N.D.	0.01	-----
1,3-DICHLOROBENZENE	N.D.	0.01	-----
1,4-DICHLOROBENZENE	N.D.	0.01	-----
BENZYL ALCOHOL	N.D.	0.02	-----
1,2-DICHLOROBENZENE	N.D.	0.01	-----
2-METHYLPHENOL	N.D.	0.01	85.1% 81.7%
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.01	-----
4-METHYLPHENOL	N.D.	0.01	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.01	-----
HEXACHLOROETHANE	N.D.	0.01	-----
NITROBENZENE	N.D.	0.01	-----
ISOPHORONE	N.D.	0.01	-----
2-NITROPHENOL	N.D.	0.01	-----
2,4-DIMETHYLPHENOL	N.D.	0.01	-----
BENZOIC ACID	N.D.	0.05	-----
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.01	87.1% 101.3%
2,4-DICHLOROPHENOL	N.D.	0.01	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.01	-----
NAPHTHALENE	N.D.	0.01	-----
4-CHLOROANILINE	N.D.	0.02	-----
HEXACHLOROBUTADIENE	N.D.	0.01	-----
4-CHLORO-3-METHYLPHENOL	N.D.	0.02	-----
2-METHYLNAPHTHALENE	N.D.	0.01	107.9% 91.5%
HEXACHLOROCYCLOPENTADIENE	N.D.	0.01	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.01	- - - - -
2,4,5-TRICHLOROPHENOL	N.D.	0.01	-----
2-CHLORONAPHTHALENE	N.D.	0.01	-----
2-NITROANILINE	N.D.	0.05	-----
DIMETHYL PHTHALATE	N.D.	0.01	-----
ACENAPHTHYLENE	N.D.	0.01	-----
3-NITROANILINE	N.D.	0.05	-----
ACENAPHTHENE	N.D.	0.01	82.4% 75.6%
2,4-DINITROPHENOL	N.D.	0.05	-----
4-NITROPHENOL	N.D.	0.05	-----
DIBENZOFURAN	N.D.	0.01	-----

(continued on next page)

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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

ChromaLab File # 0691078

Project Name: Quality Tuneup
Sample I.D.: PIT WATER
Method of Analysis: EPA 625 Matrix: water

COMPOUND NAME	Sample mg/L	MDL mg/L	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.01	-----
2,6-DINITROTOLUENE	N.D.	0.01	113.1% 90.2%
DIETHYL PHTHALATE	N.D.	0.01	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.01	-----
FLUORENE	N.D.	0.01	-----
4-NITROANILINE	N.D.	0.05	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	0.05	-----
N-NITROSODIPHENYLAMINE	N.D.	0.01	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.01	-----
HEXACHLOROBENZENE	N.D.	0.01	-----
PENTACHLOROPHENOL	N.D.	0.05	82.1% 75.3%
PHENANTHRENE	N.D.	0.01	-----
ANTHRACENE	N.D.	0.01	-----
DI-N-BUTYL PHTHALATE	N.D.	0.01	-----
FLUORANTHENE	N.D.	0.01	-----
PYRENE	N.D.	0.01	-----
BUTYLBENZYLPHTHALATE	N.D.	0.01	-----
3,3'-DICHLOROBENZIDINE	N.D.	0.02	-----
BENZO(A)ANTHRACENE	N.D.	0.01	-----
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.01	-----
CHRYSENE	N.D.	0.01	89.1% 87.5%
DI-N-OCTYLPHTHALATE	N.D.	0.01	-----
BENZO(B)FLUORANTHENE	N.D.	0.01	-----
BENZO(K)FLUORANTHENE	N.D.	0.01	-----
BENZO(A)PYRENE	N.D.	0.01	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.01	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.01	-----
BENZO(G,H,I)PERYLENE	N.D.	0.01	-----

ChromaLab, Inc.

David Duong
Senior Chemist

Eric Tam
Lab Director

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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 17, 1991 ChromaLab File No.: 0691072

MINTER & FAHY CONSTRUCTION CO. Attn: Keith Jay / Matt Minter

RE: Three soil samples for Gasoline/BTEX, Diesel, Oil & Grease, Cadmium, Chromium, Lead, Nickel, and Zinc analyses

Project Name: QUALITY TUNEUP Project Location: Castro Valley
Date Sampled: June 11, 1991 Date Submitted: June 11, 1991
Date Extracted: June 17-18, 1991 Date Analyzed: June 17-18,1991

RESULTS:

Sample No.	Gasoline (mg/kg)	Diesel (mg/kg)	Benzene (µg/kg)	Toluene (µg/kg)	Ethyl Benzene (µg/kg)	Total Xylenes (µg/kg)
SOIL-NO.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SOIL-SO.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SOIL-1,2,3,4	1.4	N.D.	N.D.	88	10	210
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	88.5%	81.3%	92.8%	102.0%	98.9%	105.7%
DUP SPIKE REC	92.9%	91.8%	82.3%	95.1%	90.8%	92.0%
DET. LIMIT	1.0	1.0	5.0	5.0	5.0	5.0
METHOD OF ANALYSIS	5030/ 8015	3550/ 8015	8020	8020	8020	8020

Sample No.	Oil & Grease (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
SOIL-NO.	N.D.	0.543	6.17	1.86	6.08	11.6
SOIL-SO.	N.D.	0.266	5.66	1.62	5.60	11.0
SOIL-1,2,3,4	24	0.321	6.66	1.73	6.77	10.3
BLANK	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
SPIKE REC.	----	99.2%	103.2%	102.8%	104.1%	94.9%
DUP SPIKE REC	----	94.3%	89.9%	96.0%	91.7%	101.5%
DET. LIMIT	10	0.005	0.05	0.05	0.04	0.005
METHOD OF ANALYSIS	5520 E&F	7130	7190	7420	7590	7950

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Laboratory Director

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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991

ChromaLab File # 0691072 A

Client: Minter & Fahy Const. Co.
Attn: Matt Minter
Date Sampled: June 11, 1991
Date Submitted: June 11, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: SOIL-No.
Method of Analysis: EPA 8010
Detection Limit: 5.0 ug/kg

COMPOUND NAME	ug/kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	89.5% 90.1%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	90.4% 89.2%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	88.7% 85.7%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	87.2% 86.8%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Lab Director

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Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991 — ChromaLab File # 0691072 B

Client: Minter & Fahy Const. Co. — Attn: Matt Minter
Date Sampled: June 11, 1991 — Date Submitted: June 11, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: SOIL-Sq.
Method of Analysis: EPA 8010 — Detection Limit: 5.0 ug/kg

COMPOUND NAME	ug/kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	89.5% 90.1%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	90.4% 89.2%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	88.7% 85.7%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	87.2% 86.8%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Lab Director

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415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991

ChromaLab File # 0691072 C

Client: Minter & Fahy Const. Co. Attn: Matt Minter
Date Sampled: June 11, 1991 Date Submitted: June 11, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: SOIL-1,2,3,4
Method of Analysis: EPA 8010 Detection Limit: 5.0 ug/kg

COMPOUND NAME	ug/kg	Spike Recovery
CHLOROMETHANE	N.D.	---
VINYL CHLORIDE	N.D.	---
BROMOMETHANE	N.D.	---
CHLOROETHANE	N.D.	---
TRICHLOROFLUOROMETHANE	N.D.	---
1,1-DICHLOROETHENE	N.D.	89.5% 90.1%
METHYLENE CHLORIDE	N.D.	---
1,2-DICHLOROETHENE (TOTAL)	N.D.	---
1,1-DICHLOROETHANE	N.D.	---
CHLOROFORM	N.D.	---
1,1,1-TRICHLOROETHANE	N.D.	---
CARBON TETRACHLORIDE	N.D.	---
1,2-DICHLOROETHANE	N.D.	---
TRICHLOROETHENE	N.D.	90.4% 89.2%
1,2-DICHLOROPROPANE	N.D.	---
BROMODICHLOROMETHANE	N.D.	---
2-CHLOROETHYLVINYLETHER	N.D.	---
TRANS-1,3-DICHLOROPROPENE	N.D.	---
CIS-1,3-DICHLOROPROPENE	N.D.	---
1,1,2-TRICHLOROETHANE	N.D.	---
TETRACHLOROETHENE	N.D.	88.7% 85.7%
DIBROMOCHLOROMETHANE	N.D.	---
CHLOROBENZENE	N.D.	---
BROMOFORM	N.D.	---
1,1,2,2-TETRACHLOROETHANE	N.D.	87.2% 86.8%
1,3-DICHLOROBENZENE	N.D.	---
1,4-DICHLOROBENZENE	N.D.	---
1,2-DICHLOROBENZENE	N.D.	---

ChromaLab, Inc.

David Duong
Chief Chemist

Eric Tam
Lab Director

2239 Omega Road, #1 • San Ramon, California 94583
415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991

ChromaLab File # 0691072 A

Client: Minter & Fahy Const. Co.
Attn: Matt Minter
Date Sampled: June 11, 1991
Date Submitted: June 11, 1991
Date Extracted: June 18, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: SOIL-No.
Method of Analysis: EPA 8270
Matrix: soil

COMPOUND NAME	Sample mg/Kg	MDL mg/Kg	Spike Recovery
PHENOL	N.D.	0.5	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.5	104.2% 96.2%
2-CHLOROPHENOL	N.D.	0.5	-----
1,3-DICHLOROBENZENE	N.D.	0.5	-----
1,4-DICHLOROBENZENE	N.D.	0.5	-----
BENZYL ALCOHOL	N.D.	1.0	-----
1,2-DICHLOROBENZENE	N.D.	0.5	-----
2-METHYLPHENOL	N.D.	0.5	-----
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.5	-----
4-METHYLPHENOL	N.D.	0.5	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	-----
HEXACHLOROETHANE	N.D.	0.5	-----
NITROBENZENE	N.D.	0.5	-----
ISOPHORONE	N.D.	0.5	-----
2-NITROPHENOL	N.D.	0.5	-----
2,4-DIMETHYLPHENOL	N.D.	0.5	-----
BENZOIC ACID	N.D.	2.5	-----
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.5	95.3% 93.0%
2,4-DICHLOROPHENOL	N.D.	0.5	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.5	-----
NAPHTHALENE	N.D.	0.5	-----
4-CHLOROANILINE	N.D.	1.0	-----
HEXACHLOROBUTADIENE	N.D.	0.5	-----
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	-----
2-METHYLNAPHTHALENE	N.D.	0.5	-----
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.5	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.5	-----
2-CHLORONAPHTHALENE	N.D.	0.5	-----
2-NITROANILINE	N.D.	2.5	-----
DIMETHYL PHTHALATE	N.D.	0.5	-----
ACENAPHTHYLENE	N.D.	0.5	-----
3-NITROANILINE	N.D.	2.5	-----
ACENAPHTHENE	N.D.	0.5	110.0% 100.0%
2,4-DINITROPHENOL	N.D.	2.5	-----
4-NITROPHENOL	N.D.	2.5	-----
DIBENZOFURAN	N.D.	0.5	-----

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Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E684)

5 DAYS TURNAROUND

ChromaLab File # 0691072 A

Project Name: Quality Tuneup
Sample I.D.: SOIL-No.
Method of Analysis: EPA 8270 Matrix: soil

COMPOUND NAME	Sample mg/Kg	MDL mg/Kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.5	-----
2,6-DINITROTOLUENE	N.D.	0.5	110.1% 116.0%
DIETHYL PHTHALATE	N.D.	0.5	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.5	-----
FLUORENE	N.D.	0.5	-----
4-NITROANILINE	N.D.	2.5	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	2.5	-----
N-NITROSODIPHENYLAMINE	N.D.	0.5	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	-----
HEXACHLOROBENZENE	N.D.	0.5	-----
PENTACHLOROPHENOL	N.D.	2.5	-----
PHENANTHRENE	N.D.	0.5	-----
ANTHRACENE	N.D.	0.5	-----
DI-N-BUTYL PHTHALATE	N.D.	0.5	-----
FLUORANTHENE	N.D.	0.5	-----
PYRENE	N.D.	0.5	-----
BUTYLBENZYLPHTHALATE	N.D.	0.5	-----
3,3'-DICHLOROBENZIDINE	N.D.	1.0	-----
BENZO(A)ANTHRACENE	N.D.	0.5	-----
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.5	-----
CHRYSENE	N.D.	0.5	110.0% 98.7%
DI-N-OCTYLPHTHALATE	N.D.	0.5	-----
BENZO(B)FLUORANTHENE	N.D.	0.5	-----
BENZO(K)FLUORANTHENE	N.D.	0.5	-----
BENZO(A)PYRENE	N.D.	0.5	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.5	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.5	-----
BENZO(G,H,I)PERYLENE	N.D.	0.5	-----

ChromaLab, Inc.

David Duong
Senior Chemist

Eric Tam
Lab Director

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Federal ID #68-0140157

CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991

ChromaLab File # 0691072 B

Client: Minter & Fahy Const. Co.
Attn: Matt Minter
Date Sampled: June 11, 1991
Date Submitted: June 11, 1991
Date Extracted: June 18, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: SOIL-Sq.
Method of Analysis: EPA 8270
Matrix: soil

COMPOUND NAME	Sample mg/Kg	MDL mg/Kg	Spike Recovery
PHENOL	N.D.	0.5	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.5	104.2% 96.2%
2-CHLOROPHENOL	N.D.	0.5	-----
1,3-DICHLOROBENZENE	N.D.	0.5	-----
1,4-DICHLOROBENZENE	N.D.	0.5	-----
BENZYL ALCOHOL	N.D.	1.0	-----
1,2-DICHLOROBENZENE	N.D.	0.5	-----
2-METHYLPHENOL	N.D.	0.5	-----
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.5	-----
4-METHYLPHENOL	N.D.	0.5	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	-----
HEXACHLOROETHANE	N.D.	0.5	-----
NITROBENZENE	N.D.	0.5	-----
ISOPHORONE	N.D.	0.5	-----
2-NITROPHENOL	N.D.	0.5	-----
2,4-DIMETHYLPHENOL	N.D.	0.5	-----
BENZOIC ACID	N.D.	2.5	-----
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.5	95.3% 93.0%
2,4-DICHLOROPHENOL	N.D.	0.5	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.5	-----
NAPHTHALENE	N.D.	0.5	-----
4-CHLOROANILINE	N.D.	1.0	-----
HEXACHLOROBUTADIENE	N.D.	0.5	-----
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	-----
2-METHYLNAPHTHALENE	N.D.	0.5	-----
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.5	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.5	-----
2-CHLORONAPHTHALENE	N.D.	0.5	-----
2-NITROANILINE	N.D.	2.5	-----
DIMETHYL PHTHALATE	N.D.	0.5	-----
ACENAPHTHYLENE	N.D.	0.5	-----
3-NITROANILINE	N.D.	2.5	-----
ACENAPHTHENE	N.D.	0.5	110.0% 100.0%
2,4-DINITROPHENOL	N.D.	2.5	-----
4-NITROPHENOL	N.D.	2.5	-----
DIBENZOFURAN	N.D.	0.5	-----

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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

ChromaLab File # 0691072 B

Project Name: Quality Tuneup
Sample I.D.: SOIL-So.
Method of Analysis: EPA 8270 Matrix: soil

COMPOUND NAME	Sample mg/Kg	MDL mg/Kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.5	-----
2,6-DINITROTOLUENE	N.D.	0.5	110.1% 116.0%
DIETHYL PHTHALATE	N.D.	0.5	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.5	-----
FLUORENE	N.D.	0.5	-----
4-NITROANILINE	N.D.	2.5	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	2.5	-----
N-NITROSODIPHENYLAMINE	N.D.	0.5	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	-----
HEXACHLOROBENZENE	N.D.	0.5	-----
PENTACHLOROPHENOL	N.D.	2.5	-----
PHENANTHRENE	N.D.	0.5	-----
ANTHRACENE	N.D.	0.5	-----
DI-N-BUTYL PHTHALATE	N.D.	0.5	-----
FLUORANTHENE	N.D.	0.5	-----
PYRENE	N.D.	0.5	-----
BUTYLBENZYLPHTHALATE	N.D.	0.5	-----
3,3'-DICHLOROBENZIDINE	N.D.	1.0	-----
BENZO(A)ANTHRACENE	N.D.	0.5	-----
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.5	-----
CHRYSENE	N.D.	0.5	110.0% 98.7%
DI-N-OCTYLPHTHALATE	N.D.	0.5	-----
BENZO(B)FLUORANTHENE	N.D.	0.5	-----
BENZO(K)FLUORANTHENE	N.D.	0.5	-----
BENZO(A)PYRENE	N.D.	0.5	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.5	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.5	-----
BENZO(G,H,I)PERYLENE	N.D.	0.5	-----

ChromaLab, Inc.

David Duong
Senior Chemist

Eric Tam
Lab Director

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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

June 19, 1991

ChromaLab File # 0691072 C

Client: Minter & Fahy Const. Co.
Attn: Matt Minter
Date Sampled: June 11, 1991
Date Submitted: June 11, 1991
Date Extracted: June 18, 1991
Date of Analysis: June 19, 1991

Project Name: Quality Tuneup
Sample I.D.: SOIL-1,2,3,4
Method of Analysis: EPA 8270
Matrix: soil

COMPOUND NAME	Sample mg/Kg	MDL mg/Kg	Spike Recovery
PHENOL	N.D.	0.5	-----
BIS(2-CHLOROETHYL) ETHER	N.D.	0.5	104.2% 96.2%
2-CHLOROPHENOL	N.D.	0.5	-----
1,3-DICHLOROBENZENE	N.D.	0.5	-----
1,4-DICHLOROBENZENE	N.D.	0.5	-----
BENZYL ALCOHOL	N.D.	1.0	-----
1,2-DICHLOROBENZENE	N.D.	0.5	-----
2-METHYLPHENOL	N.D.	0.5	-----
BIS(2-CHLOROISOPROPYL)ETHER	N.D.	0.5	-----
4-METHYLPHENOL	N.D.	0.5	-----
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.5	-----
HEXACHLOROETHANE	N.D.	0.5	-----
NITROBENZENE	N.D.	0.5	-----
ISOPHORONE	N.D.	0.5	-----
2-NITROPHENOL	N.D.	0.5	-----
2,4-DIMETHYLPHENOL	N.D.	0.5	-----
BENZOIC ACID	N.D.	2.5	-----
BIS(2-CHLOROETHOXY)METHANE	N.D.	0.5	95.3% 93.0%
2,4-DICHLOROPHENOL	N.D.	0.5	-----
1,2,4-TRICHLOROBENZENE	N.D.	0.5	-----
NAPHTHALENE	N.D.	0.5	-----
4-CHLOROANILINE	N.D.	1.0	-----
HEXACHLOROBUTADIENE	N.D.	0.5	-----
4-CHLORO-3-METHYLPHENOL	N.D.	1.0	-----
2-METHYLNAPHTHALENE	N.D.	0.5	-----
HEXACHLOROCYCLOPENTADIENE	N.D.	0.5	-----
2,4,6-TRICHLOROPHENOL	N.D.	0.5	-----
2,4,5-TRICHLOROPHENOL	N.D.	0.5	-----
2-CHLORONAPHTHALENE	N.D.	0.5	-----
2-NITROANILINE	N.D.	2.5	-----
DIMETHYL PHTHALATE	N.D.	0.5	-----
ACENAPHTHYLENE	N.D.	0.5	-----
3-NITROANILINE	N.D.	2.5	-----
ACENAPHTHENE	N.D.	0.5	110.0% 100.0%
2,4-DINITROPHENOL	N.D.	2.5	-----
4-NITROPHENOL	N.D.	2.5	-----
DIBENZOFURAN	N.D.	0.5	-----

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CHROMALAB, INC.

Analytical Laboratory (E694)

5 DAYS TURNAROUND

ChromaLab File # 0691072 C

Project Name: Quality Tuneup
Sample I.D.: SOIL-1,2,3,4
Method of Analysis: EPA 8270 Matrix: soil

COMPOUND NAME	Sample mg/Kg	MDL mg/Kg	Spike Recovery
2,4-DINITROTOLUENE	N.D.	0.5	-----
2,6-DINITROTOLUENE	N.D.	0.5	110.1% 116.0%
DIETHYL PHTHALATE	N.D.	0.5	-----
4-CHLORO-PHENYL PHENYL ETHER	N.D.	0.5	-----
FLUORENE	N.D.	0.5	-----
4-NITROANILINE	N.D.	2.5	-----
4,6-DINITRO-2-METHYL PHENOL	N.D.	2.5	-----
N-NITROSODIPHENYLAMINE	N.D.	0.5	-----
4-BROMOPHENYL PHENYL ETHER	N.D.	0.5	-----
HEXACHLOROBENZENE	N.D.	0.5	-----
PENTACHLOROPHENOL	N.D.	2.5	-----
PHENANTHRENE	N.D.	0.5	-----
ANTHRACENE	N.D.	0.5	-----
DI-N-BUTYL PHTHALATE	N.D.	0.5	-----
FLUORANTHENE	N.D.	0.5	-----
PYRENE	N.D.	0.5	-----
BUTYLBENZYLPHTHALATE	N.D.	0.5	-----
3,3'-DICHLOROBENZIDINE	N.D.	1.0	-----
BENZO(A)ANTHRACENE	N.D.	0.5	-----
BIS(2-ETHYLHEXYL)PHTHALATE	N.D.	0.5	-----
CHRYSENE	N.D.	0.5	110.0% 98.7%
DI-N-OCTYLPHTHALATE	N.D.	0.5	-----
BENZO(B)FLUORANTHENE	N.D.	0.5	-----
BENZO(K)FLUORANTHENE	N.D.	0.5	-----
BENZO(A)PYRENE	N.D.	0.5	-----
INDENO(1,2,3 C,D)PYRENE	N.D.	0.5	-----
DIBENZO(A,H)ANTHRACENE	N.D.	0.5	-----
BENZO(G,H,I)PERYLENE	N.D.	0.5	-----

ChromaLab, Inc.

David Duong
Senior Chemist

Eric Tam
Lab Director

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415/831-1788 • Facsimile 415/831-8798
Federal ID #68-0140157

CHROMALAB FILE # 69107B

Order # 2531

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS:
QUALITY TUNE UP
2780 CASTRO VALLEY BLVD
CASTRO VALLEY, CA

SAMPLER: (Signature) Keith Jay

MINTER & FAHY CONST. CO.
411 N. Buchanan Circle, #2
Pacheco, CA 94553
(415)674-8800 (415)674-9067 (FAX)

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	ANALYSIS REQUESTED: TPH-G+D	BTEX	CLHC (8)	TOTAL OIL & GREASE 5520	METALS (Cd, Cr, Pb, Zn, Ni)	REMARKS
PIT WATER	6-12-91	8:10		X	PIT WATER SAMPLE	X	X	X	X	X	5 DAY - TAT

RELINQUISHED BY: (Signature) Keith Jay	DATE 6-12-91 TIME 10:30	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature) Gary Cook	DATE 6-12-9 TIME 1013

CHAIN OF CUSTODY RECORD

CHROMALAB FILE # 691072

2525

PROJECT NAME AND ADDRESS:
QUALITY TUNEUP
2780 CASTRO VALLEY BVD
CASTRO VALLEY, CA.

SAMPLED: (Signature) Faith Jay

MINTER & FAHY CONST. CO.
411 N. Buchanan Circle, #2
Pacheco, CA 94553
(415)674-8800 (415)674-9067 (FAX)

ANALYSIS REQUESTED

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	STATION LOCATION	TPH-G+D	BTEX	OIL+GREASE	601/8010	8270	Heavy metals Cd Cr Pb Ni Zn	REMARKS
PIT WATER	6-11-91	12:00		X	PIT WATER	X	X	X	X	X		24 HR TAT
SOIL-No.	6-11-91	12:05	X		NO. END OF PIT @ 14'	X	X	X	X	X		"
SOIL-So.	6-11-91	12:10	X		SO. END OF PIT @ 13.5'							"
Soil-1	6-11-91	12:40	X		} composite 4 into 1							
-2		12:45	X									
-3		12:50										
-4		12:55										

HOLD

Chain of Custody update 6/12/91 per K. Jay GRC

5 day TAT

RELINQUISHED BY: (Signature) Faith Jay DATE 6-11-91 TIME 14:10

RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE TIME

RECEIVED BY: (Signature) DATE TIME

RELINQUISHED BY: (Signature) DATE TIME

RECEIVED FOR LABORATORY BY: (Signature) DATE TIME

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
5997 PARKSIDE DRIVE • PLEASANTON, CALIFORNIA 94588 • (510) 484-2600

7 May 1992

Hageman-Aguiar, Inc.
3732 Mt. Diablo Boulevard, Suite 372
Lafayette, Ca 94549

Gentlemen:

Enclosed is drilling permit 92222 for a monitoring well construction project at 2780 Castro Valley Boulevard in Castro Valley for Side B Corporation.

Please note that permit condition A-2 requires that a well construction report be submitted after completion of the work. The report should include drilling and completion logs, location sketch, and permit number.

If you have any questions, please contact Wyman Hong or me at 484-2600.

Very truly yours,

Craig A. Mayfield

Craig A. Mayfield
Water Resources Engineer

WH:mm
Enc.

ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE ♦ PLEASANTON, CALIFORNIA 94588 ♦ (415) 484-2600

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT: Quality Tune-Up
2780 Castro Valley Blvd
Castro Valley, CA

CLIENT
Name: Larry Armstrong / Side B Corporation
Address: 286 E. Hamilton Phone: (408)374-2001
City: Campbell Zip: 95008

APPLICANT
Name: Hageman-Aguiar, Inc.
3732 Mt Diablo Blvd
Address: Suite 372 Phone: (510)284-1661
City: Lafayette, CA Zip: 94549

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	___	General	___
Water Supply	___	Contamination	X
Monitoring	X	Well Destruction	___

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. C-57 #485165 (Gregg Drilling)

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 25 ft.
Surface Seal Depth 10 ft. Number 3

GEOTECHNICAL PROJECTS
Number of Borings ___ Maximum
Hole Diameter ___ in. Depth ___ ft.

ESTIMATED STARTING DATE 5/12/92
ESTIMATED COMPLETION DATE 5/12/92

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Gary Aguiar Date 5/7/92

FOR OFFICE USE

PERMIT NUMBER 92222
LOCATION NUMBER

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

(B.) WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

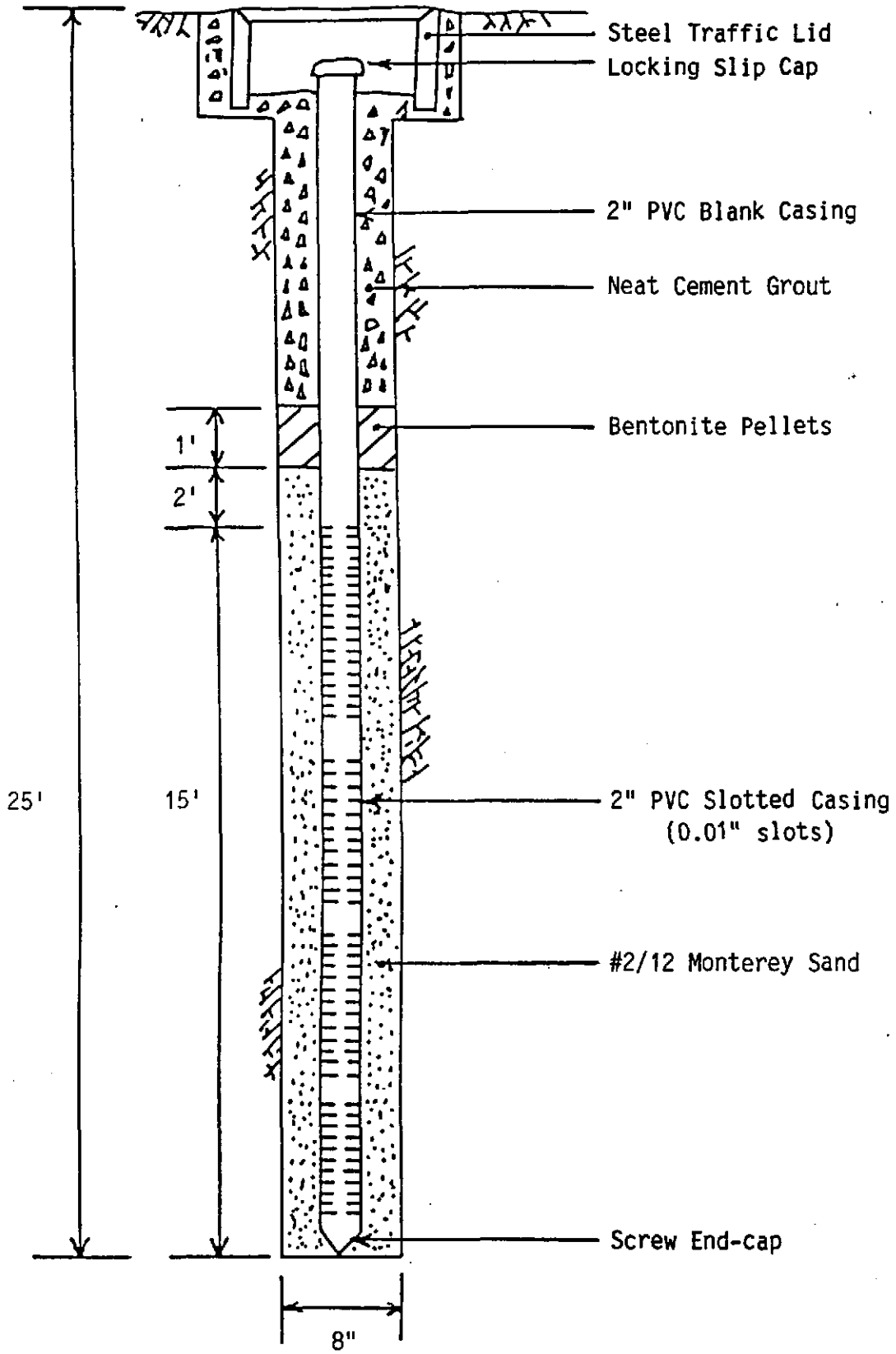
D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

E. WELL DESTRUCTION. See attached.

Approved Wyman Hong Date 7 May 92
Wyman Hong

51991

MONITORING WELL MW-1



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

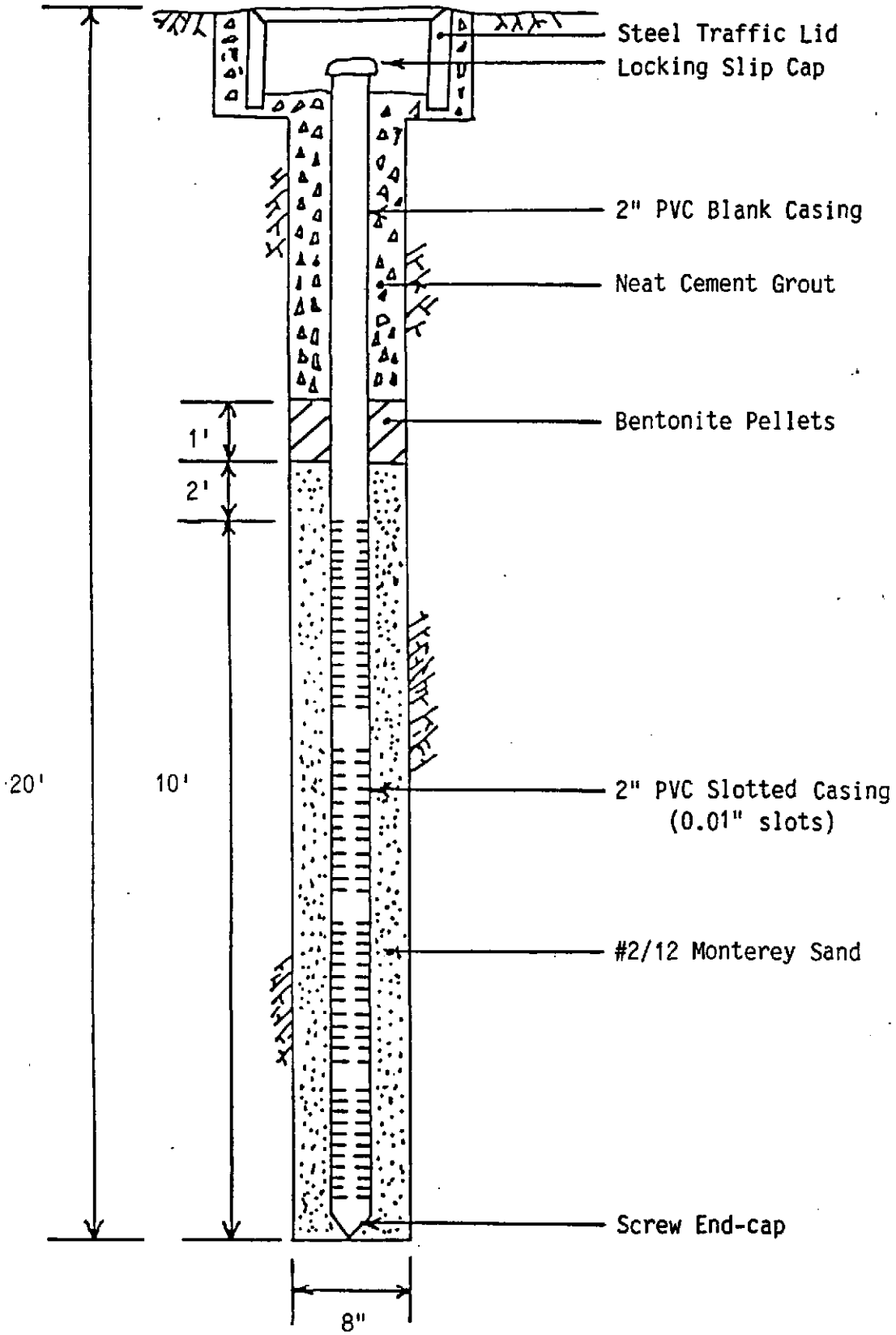
REMOVED

CONFIDENTIAL

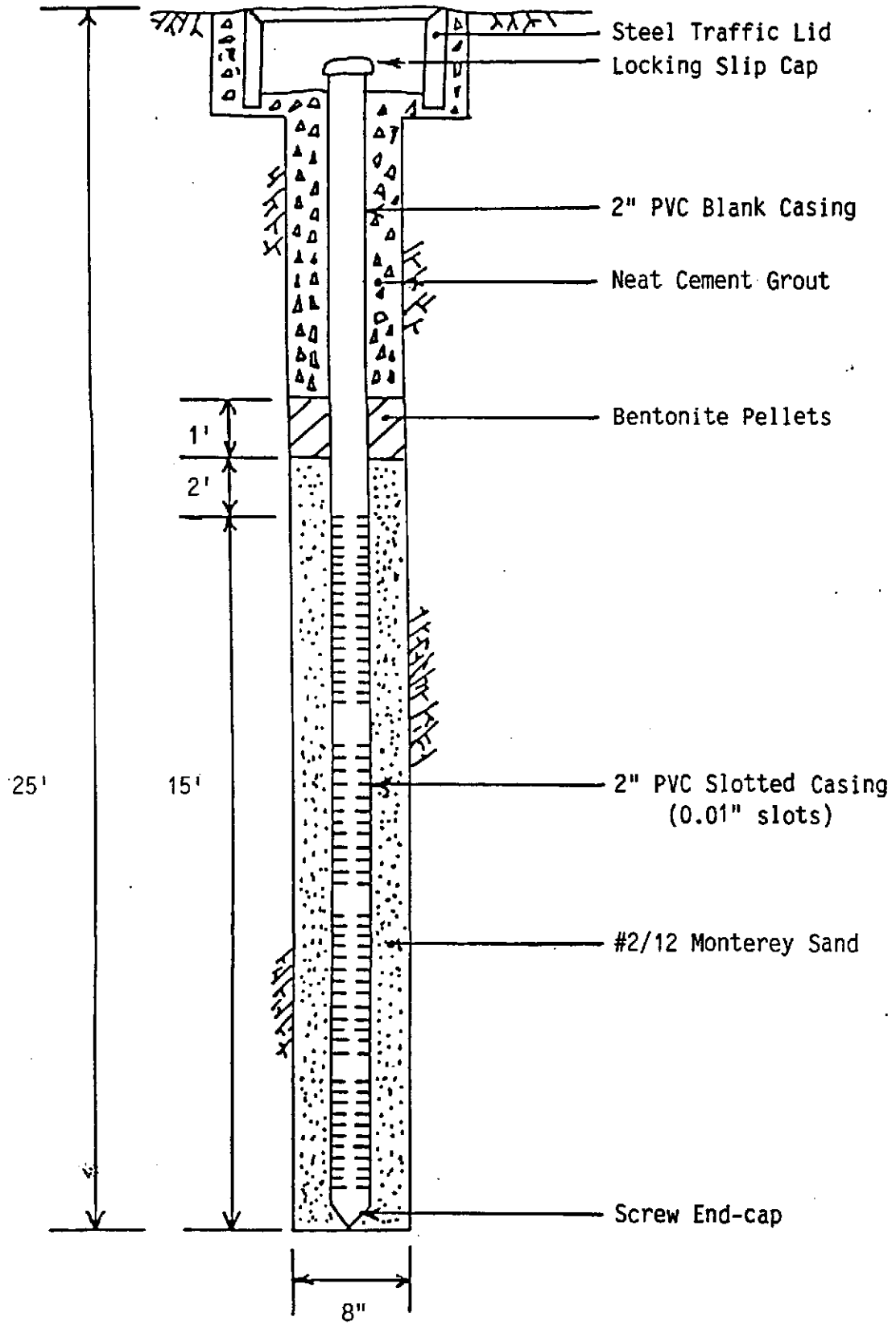
STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

MONITORING WELL MW-2



MONITORING WELL MW-3



JUNE 17, 1992
GARY AGUIAR
BRUCE HAGEMAN

SOKKIA $C3_2$ AUTO LEVEL
TOPO ROD

SUNNY, HOT

QUALITY TUNE-UP
2780 CASTRO VALLEY BLVD
CASTRO VALLEY, CA

MONITORING WELL ELEVATIONS

STN	BS	HI	FS	ELEV
BM				168.04
	4.76	172.80		
TP-1			10.12	162.68
	6.48	169.16		
MW-2			5.83	163.33
MW-1			5.46	163.70
TP-2			5.68	163.48
	6.11	169.59		
MW-3			6.24	163.35
TP-3			6.36	163.23
	9.88	173.11		
BM			5.04	168.07

ALAMEDA COUNTY BENCHMARK
ANITA-CVB

MONITORING WELL MW-2, TOP OF RIM
MONITORING WELL MW-1, TOP OF RIM

MONITORING WELL MW-3, TOP OF RIM

BENCHMARK ANITA-CVB

ANITA-CVB (1990)

STD ALAMEDA COUNTY SURVEYOR BRASS DISC ON TOC OVER DROP INLET, 105± NORTHERLY OF ℄ CASTRO VALLEY BLVD, 19± EASTERLY OF ℄ ANITA AVE.

SIEVE ANALYSIS

Quality Tune-Up

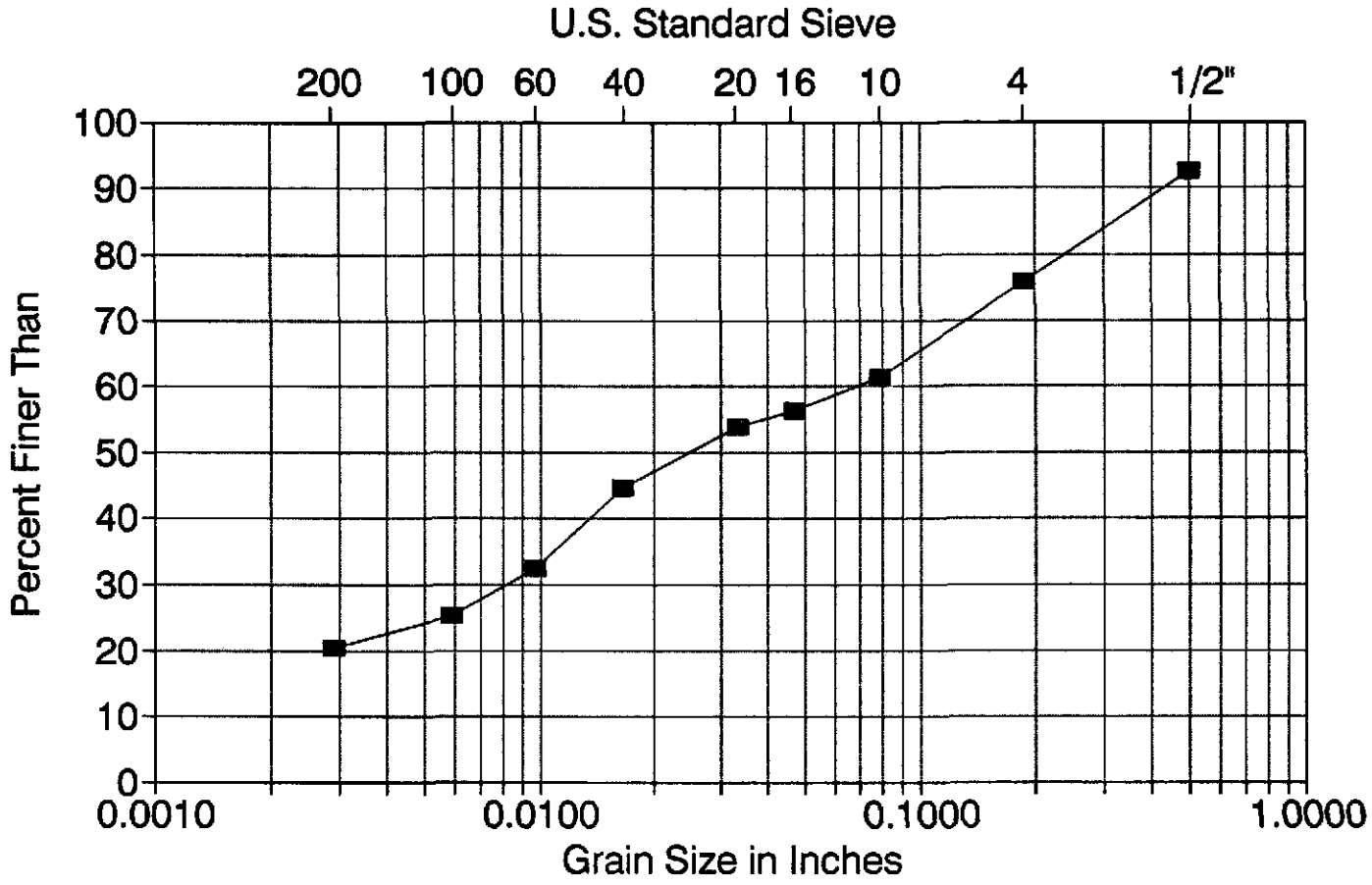
Monitoring Well MW-1 at 15 feet

Sieve	Total Wt	Sieve Tare	Soil Wt	Sum	Delta	% Finer
1/2"	472.5	443.1	29.4	29.4	362.9	92.5
4	579.2	513.7	65.5	94.9	297.4	75.8
10	427.4	370.4	57.0	151.9	240.4	61.3
16	440.9	421.0	19.9	171.8	220.5	56.2
20	330.0	320.0	10.0	181.8	210.5	53.7
40	415.6	380.6	35.0	216.8	175.5	44.7
60	318.0	269.8	48.2	265.0	127.3	32.4
100	377.2	349.9	27.3	292.3	100.0	25.5
200	354.8	334.8	20.0	312.3	80.0	20.4
PAN	379.8	379.5	80.0	392.3	***	***

Total Wt:	571.2
Container:	178.0
Sample Wt:	393.2

SIEVE ANALYSIS

QUALITY TUNE-UP, well MW-1 at 15 feet



WELL DEVELOPMENT LOG

Project/No. QUALITY TUNE-UP Page 1 of 3

Site Location CASTRO VALLEY

Well No. MW 1 Date 5/18/92

Weather CLEAR / 75°F Time Began 1115
Completed 1425

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX TO GRADE

Total Sounded Depth of Well Below MP 24.50

Depth to Water Below MP 10.68 Diameter of Casing 2"

Water Column in Well 13.82

Gallons in Well 2.2 Gallons Pumped During Development 29

Evacuation Method HAND BAILED, TEFLON

DEVELOPMENT / FIELD PARAMETERS

Color GREY Odor NONE

Appearance NO FREE PRODUCT

Time	Gallons	Temperature	Conductivity	pH	Clarity / Silt Content
1115	0	19.7	900	7.0	CLR
	(5 MIN. SURGE)				
1135	10	19.5	950	7.4	HIGH
	(5 MIN SURGE)				
*1200	19	20.2	1150	7.8	HIGH
	(5 MIN SURGE AFTER RECHARGE)				
*1425	29	20.3	800	8.0	MED

Field Personnel SURGE BLOCK PASSES THRU COLUMN READILY.

* DEWATERED

WELL DEVELOPMENT LOG

Project/No. QUALITY TUNE-UP Page 2 of 3

Site Location CASTRO VALLEY

Well No. MW 2 Date 5/18/92

Weather CLEAR/75°F Time Began 1215
Completed 1440

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX TO GRADE

Total Sounded Depth of Well Below MP 20.58

Depth to Water Below MP 10.72 Diameter of Casing 2"

Water Column in Well 9.86

Gallons in Well 1.6 Gallons Pumped During Development 11

Evacuation Method TEFLON HAND BAILER

DEVELOPMENT / FIELD PARAMETERS

Color BROWN Odor NONE

Appearance NO FREE PRODUCT

Time	Gallons	Temperature	Conductivity	pH	Clarity / Silt Content
1215	0	19.9	1650	7.7	CLR
	(5 MIN. SURGE)				
1230	5	20.0	1450	8.2	HIGH
	(5 MIN. SURGE)				
* 1250	8	19.9	1500	7.7	HIGH
	(3 MIN. SURGE)			AFTER RECHARGE)	
* 1440	11	20.2	1200	7.9	MED

Field Personnel MED. RESISTANCE TO SURGE

* DEWATERED

WELL DEVELOPMENT LOG

Project/No. QUALITY TUNE-UP Page 3 of 3

Site Location CASTRO VALLEY

Date 5/18/92

Well No. MW 3

Weather CLEAR / 75°F

Time Began 1315
Completed 1505

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX TO GRADE

Total Sounded Depth of Well Below MP 24.45

Depth to Water Below MP 8.93 Diameter of Casing 2"

Water Column in Well 15.52

Gallons in Well 2.5 Gallons Pumped During Development 18

Evacuation Method TEFLON HAND BAILER

DEVELOPMENT / FIELD PARAMETERS

Color GREY / BROWN Odor NONE

Appearance NO FREE PRODUCT

	Time	Gallons	Temperature	Conductivity	pH	Clarity / Silt Content
	1315	0	19.4	1300	7.4	CLR
		(5 MIN. SURGE)				
	1340	10	21.6	1500	7.7	HIGH
		(5 MIN. SURGE)				
*	1405	15	20.0	1400	8.1	HIGH
		(3 MIN. SURGE AFTER RECHARGE)				
*	1505	18	19.7	1200	7.5	HIGH

Field Personnel MED. RESISTANCE TO SURGE

* DEWATERED

WELL SAMPLING LOG

Project/No. QUALITY TUNE-UP Page 1 of 3

Site Location CASTRO VALLEY

Date 5/20/92

Well No. MW 1

Time Began 1030
Completed 1345

Weather CLEAR / 80 °F

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE

Total Sounded Depth of Well Below MP 24.52

Diameter of Casing 2"

- Depth to Water Below MP 11.03

= Water Column in Well 13.49

Gallons in Casing 2.2 + Annular Space (30% porosity) 8.3 = Total Gallons 10.5

Gallons Pumped Prior to Sampling 29

Evacuation Method ACRYLIC HAND BAILER

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: NO FREE PRODUCT
(thickness to 0.1 inch, if any)

			*	*
Time	1030	1040	1130	1245
Gals Removed	0	10	21	29
Temperature	19.9	19.3	19.6	19.6
Conductivity	~~3700~~ (TECH ERROR)	~~3700~~	700	700
pH	7.3	7.4	7.5	7.5
Color / Odor	CLR/NO	GRY/NO	GRY/NO	GRY/NO
Turbidity	LOW	HIGH	HIGH	HIGH

Comments: 1 hr. GIVEN BETWEEN DEWATERINGS,
1 hr. GIVEN BETWEEN 2ND DEWATERING AND SAMPLING.

* (DEWATERED)

WELL SAMPLING LOG

Project/No. QUALITY TUNE-UP Page 2 of 3

Site Location CASTRO VALLEY

Date 5/20/92

Well No. MW 2

Time Began 1045
Completed 1415

Weather CLEAR / 80°F

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE

Total Sounded Depth of Well Below MP 20.62

- Depth to Water Below MP 10.68 Diameter of Casing 2"

= Water Column in Well 9.94

Gallons in Casing 1.6 + Annular Space (30% porosity) 6.2 = Total Gallons 7.8

Gallons Pumped Prior to Sampling 10

Evacuation Method ACRYLIC HAND BAILER

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: NO FREE PRODUCT
(thickness to 0.1 inch, if any)

Time	1045	1055 *	1225 *	
Gals Removed	0	7	10	
Temperature	19.8	19.6	20.5	
Conductivity	800	1000	1000	
pH	7.3	7.4	7.5	
Color / Odor	CLR/NO	BRN/NO	BRN/NO	
Turbidity	LOW	HIGH	HIGH	

Comments: 1 hr. GIVEN BETWEEN 1ST & 2ND DEWATERING.
* (DEWATERED) 1 hr. GIVEN BETWEEN 2ND & SAMPLING.

WELL SAMPLING LOG

Project/No. QUALITY TUNE-UP

Page 3 of 3

Site Location CASTRO VALLEY

Date 5/20/92

Well No. MW 3

Time Began 1105

Weather CLEAR/80°F

Completed ~~1355~~ JSR 1355

EVACUATION DATA

Description of Measuring Point (MP) WELL BOX AT GRADE

Total Sounded Depth of Well Below MP 24.50

- Depth to Water Below MP 9.07

Diameter of Casing 2"

= Water Column in Well 15.43

Gallons in Casing 2.5 + Annular Space (30% porosity) 9.6 = Total Gallons 12.1

Gallons Pumped Prior to Sampling 17

Evacuation Method ACRYLIC HAND BAILER

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: NO FREE PRODUCT
(thickness to 0.1 inch, if any)

			*	*
Time	1105	1115	1135	1240
Gals Removed	0	10	14	17
Temperature	18.7	19.1	18.7	19.3
Conductivity	900	1050	1050	1000
pH	7.0	7.4	7.4	7.4
Color / Odor	CLR/NO	GRY/NO	GRY/NO	GRY/NO
Turbidity	LOW	HIGH	HIGH	HIGH

Comments: 1 hr. GIVEN BETWEEN 1ST & 2ND DEWATERING,
* (DEWATERED) 1 hr GIVEN BETWEEN 2ND & SAMPLING.

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 14, 1992 PEL # 9205019

HAGEMAN - AGUIAR

Attn: Gary Aguiar
Re: Nine soil samples for Gasoline/BTEX, TEPH, and Oil & Grease analyses.

Project name: Quality Tune-up
Project location: 2780 Castro Valley Blvd.,-Castro Valley

Date sampled: May 12, 1992 Date submitted: May 13, 1992
Date extracted: May 13-14,1992 Date analyzed: May 13-14,1992

RESULTS:

SAMPLE I.D.	Kerosene (mg/Kg)	Gasoline (mg/Kg)	Diesel (mg/Kg)	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)	Oil & Grease (mg/Kg)	Motor Oil (mg/Kg)
MW-1-5'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-1-10'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2-5'	N.D.	N.D.	N.D.	N.D.	5.4	N.D.	22	N.D.	N.D.
MW-2-10'	N.D.	6.6	N.D.	8.6	12	36	92	N.D.	N.D.
MW-2-15'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3-5'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3-10'	8.5	430	N.D.	810	440	1700	4300	32	N.D.
MW-3-13'	N.D.	50	N.D.	27	17	77	160	16	N.D.
MW-3-15'	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	92.1%	101.4%	100.9%	91.7%	87.6%	95.4%	91.1%	----	----
Duplicated Spiked Recovery	----	90.5%	93.4%	89.3%	87.2%	91.5%	103.2%	----	----
Detection limit	1.0	1.0	1.0	5.0	5.0	5.0	5.0	10	10
Method of Analysis	3550 / 8015	5030 / 8015	3550 / 8015	8020	8020	8020	8020	5520 D & F	3550/ 8015

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 25, 1992 PEL # 9205030

HAGEMAN - AGUIAR

Attn: Gary Aguiar
Re: Three water samples for Gasoline/BTEX, TEPH, and Oil & Grease analyses.

Project name: Quality Tune-up
Project location: Castro Valley

Date sampled:May 20, 1992 Date submitted:May 20, 1992
Date extracted:May 21-23, 1992 Date analyzed:May 21-23, 1992

RESULTS:

SAMPLE I.D.	Kerosene (ug/L)	Gasoline (ug/L)	Diesel (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)	Oil & Grease (mg/L)	Motor Oil (mg/L)
MW-1	N.D.	260	N.D.	N.D.	N.D.	4.4	9.0	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	N.D.	4200	N.D.	4.5	1.2	13	43	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	90.7%	102.4%	83.4%	105.0%	104.1%	97.6%	107.7%	---	---
Duplicate spiked Recovery	----	97.6%	95.2%	93.5%	101.2%	98.4%	98.7%	---	---
Detection limit	50	50	50	0.5	0.5	0.5	0.5	0.5	0.5
Method of Analysis	3510 / 8015	5030 / 8015	3510 / 8015	602	602	602	602	5520 C & F	3510/ 8015

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 26, 1992 PEL # 9205030

HAGEMAN - AGUIAR

Attn: Jeffrey Roth
Re: Three water samples for Cadmium, Chromium, Lead, Nickel, and Zinc analyses.

Project name: Quality Tune-up
Project location: Castro Valley

Date sampled:May 20, 1992 Date submitted:May 20, 1992
Date extracted:May 21-22, 1992 Date analyzed:May 21-22, 1992

RESULTS:

SAMPLE I.D.	Cadmium (mg/L)	Chromium (mg/L)	Lead (mg/L)	Nickel (mg/L)	Zinc (mg/L)
MW-1	N.D.	N.D.	N.D.	N.D.	N.D.
MW-2	N.D.	N.D.	N.D.	N.D.	N.D.
MW-3	N.D.	N.D.	N.D.	N.D.	N.D.
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	87.4%	90.3%	97.5%	89.6%	107.4%
Detection limit	0.05	0.05	0.05	0.05	0.05
Method of Analysis	7130	7190	7420	7520	7950

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 25, 1992 PEL # 9205030

HAGEMAN - AGUIAR, INC. Attn:Gary Aguiar
Project name:Quality Tune-up Project location:Castro Valley

Sample I.D.: MW-1

Date Sampled: May 20, 1992 Date Submitted:May 20, 1992
Date Analyzed: May 24, 1992

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	91.6
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	98.4
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	-----
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	101.3
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	90.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

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PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 25, 1992 PEL # 9205030

HAGEMAN - AGUIAR, INC. Attn:Gary Aguiar
Project name:Quality Tune-up Project location:Castro Valley

Sample I.D.: MW-2

Date Sampled: May 20, 1992 Date Submitted:May 20, 1992
Date Analyzed: May 24, 1992

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	91.6
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	98.4
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	-----
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	101.3
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	90.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

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PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

May 25, 1992 PEL # 9205030

HAGEMAN - AGUIAR, INC. Attn:Gary Aguiar
Project name:Quality Tune-up Project location:Castro Valley

Sample I.D.: MW-3

Date Sampled: May 20, 1992 Date Submitted:May 20, 1992
Date Analyzed: May 24, 1992

Method of Analysis: EPA 601 Detection limit: 0.5 ug/L

COMPOUND NAME	CONCENTRATION (ug/L)	SPIKE RECOVERY (%)
Chloromethane	N.D.	-----
Vinyl Chloride	N.D.	91.6
Bromomethane	N.D.	-----
Chloroethane	N.D.	-----
Trichlorofluoromethane	N.D.	-----
1,1-Dichloroethene	N.D.	-----
Methylene Chloride	N.D.	98.4
1,2-Dichloroethene (TOTAL)	N.D.	-----
1,1-Dichloroethane	N.D.	-----
Chloroform	N.D.	-----
1,1,1-Trichloroethane	N.D.	-----
Carbon Tetrachloride	N.D.	-----
1,2-Dichloroethane	N.D.	-----
Trichloroethene	N.D.	101.3
1,2-Dichloropropane	N.D.	-----
Bromodichloromethane	N.D.	-----
2-Chloroethylvinylether	N.D.	-----
Trans-1,3-Dichloropropene	N.D.	-----
Cis-1,3-Dichloropropene	N.D.	-----
1,1,2-Trichloroethane	N.D.	-----
Tetrachloroethene	N.D.	90.7
Dibromochloromethane	N.D.	-----
Chlorobenzene	N.D.	-----
Bromoform	N.D.	-----
1,1,2,2-Tetrachloroethane	N.D.	-----
1,3-Dichlorobenzene	N.D.	-----
1,4-Dichlorobenzene	N.D.	-----
1,2-Dichlorobenzene	N.D.	-----

David Duong
Laboratory Director

1764 Houret Court Milpitas, CA. 95035 Tel: 408-946-9636 Fax: 408-946-9663

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW1
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-01A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270 (WATER MATRIX)
GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS
BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy) methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl) ether	108-60-1	ND	10
Bis(2-ethylhexyl) phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenyl ether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW1
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-01A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270
BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-Nitrosodimethylamine	62-75-9	ND	10
N-Nitrosodiphenylamine	86-30-6	ND	10
N-Nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW1
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-01A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270
ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW2
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-02A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270 (WATER MATRIX)
GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS
BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy) methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl) ether	108-60-1	ND	10
Bis(2-ethylhexyl) phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenyl ether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW2
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-02A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270
BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	91-20-3	ND	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-Nitrosodimethylamine	62-75-9	ND	10
N-Nitrosodiphenylamine	86-30-6	ND	10
N-Nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW2
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-02A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270
ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW3
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-03A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270 (WATER MATRIX)
GC/MS SEMI-VOLATILE ORGANIC COMPOUNDS
BASE/NEUTRAL EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
Acenaphthene	83-32-9	ND	10
Acenaphthylene	208-96-8	ND	10
Anthracene	120-12-7	ND	10
Benzidine	92-87-5	ND	50
Benzoic Acid	65-85-0	ND	50
Benzo(a)anthracene	56-55-3	ND	10
Benzo(b)fluoranthene	205-99-2	ND	10
Benzo(k)fluoranthene	207-08-9	ND	10
Benzo(g,h,i)perylene	191-24-2	ND	10
Benzo(a)pyrene	50-32-8	ND	10
Benzyl Alcohol	100-51-6	ND	20
Bis(2-chloroethoxy) methane	111-91-1	ND	10
Bis(2-chloroethyl)ether	111-44-4	ND	10
Bis(2-chloroisopropyl) ether	108-60-1	ND	10
Bis(2-ethylhexyl) phthalate	117-81-7	ND	10
4-Bromophenyl phenyl ether	101-55-3	ND	10
Butylbenzyl phthalate	85-68-7	ND	10
4-Chloroaniline	106-47-8	ND	20
2-Chloronaphthalene	91-58-7	ND	10
4-Chlorophenyl phenyl ether	7005-72-3	ND	10
Chrysene	218-01-9	ND	10
Dibenzo(a,h)anthracene	53-70-3	ND	10
Dibenzofuran	132-64-9	ND	10
Di-n-butylphthalate	84-74-2	ND	10
1,2-Dichlorobenzene	95-50-1	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW3
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
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QUANTEQ LAB NO: 9205219-03A
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DATE EXTRACTED: 05/21/92
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INSTRUMENT: 11

EPA METHOD 8270
BASE/NEUTRAL EXTRACTABLES (cont.)

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
1,3-Dichlorobenzene	541-73-1	ND	10
1,4-Dichlorobenzene	106-46-7	ND	10
3,3'-Dichlorobenzidine	91-94-1	ND	20
Diethylphthalate	84-66-2	ND	10
Dimethylphthalate	131-11-3	ND	10
2,4-Dinitrotoluene	121-14-2	ND	10
2,6-Dinitrotoluene	606-20-2	ND	10
Di-n-octylphthalate	117-84-0	ND	10
1,2-Diphenylhydrazine	122-66-7	ND	10
Fluoranthene	206-44-0	ND	10
Fluorene	86-73-7	ND	10
Hexachlorobenzene	118-74-1	ND	10
Hexachlorobutadiene	87-68-3	ND	10
Hexachlorocyclopentadiene	77-47-4	ND	10
Hexachloroethane	67-72-1	ND	10
Indeno(1,2,3-cd)pyrene	193-39-5	ND	10
Isophorone	78-59-1	ND	10
2-Methylnaphthalene	91-57-6	ND	10
Naphthalene	**91-20-3**	**37**	10
2-Nitroaniline	88-74-4	ND	50
3-Nitroaniline	99-09-2	ND	50
4-Nitroaniline	100-01-6	ND	50
Nitrobenzene	98-95-3	ND	10
N-Nitrosodimethylamine	62-75-9	ND	10
N-Nitrosodiphenylamine	86-30-6	ND	10
N-Nitroso-di-n-propylamine	621-64-7	ND	10
Phenanthrene	85-01-8	ND	10
Pyrene	129-00-0	ND	10
1,2,4-Trichlorobenzene	120-82-1	ND	10

ND = Not Detected

PRIORITY ENVIRONMENTAL LABS

SAMPLE ID: MW3
CLIENT PROJ. ID: 9205030
DATE SAMPLED: 05/20/92
DATE RECEIVED: 05/21/92
REPORT DATE: 06/02/92

QUANTEQ LAB NO: 9205219-03A
QUANTEQ JOB NO: 9205219
DATE EXTRACTED: 05/21/92
DATE ANALYZED: 05/26/92
INSTRUMENT: 11

EPA METHOD 8270
ACID EXTRACTABLES

COMPOUND	CAS #	CONCENTRATION (ug/L)	DETECTION LIMIT (ug/L)
4-Chloro-3-methylphenol	59-50-7	ND	10
2-Chlorophenol	95-57-8	ND	10
2,4-Dichlorophenol	120-83-2	ND	10
2,4-Dimethylphenol	105-67-9	ND	10
4,6-Dinitro-2-methylphenol	534-52-1	ND	50
2,4-Dinitrophenol	51-28-5	ND	50
2-Methylphenol	95-48-7	ND	10
4-Methylphenol	106-44-5	ND	10
2-Nitrophenol	88-75-5	ND	10
4-Nitrophenol	100-02-7	ND	50
Pentachlorophenol	87-86-5	ND	50
Phenol	108-95-2	ND	10
2,4,5-Trichlorophenol	95-95-4	ND	10
2,4,6-Trichlorophenol	88-06-2	ND	10

ND = Not Detected

Priority Environmental Labs
1764 Houret Court
Milpitas, CA 95035
(408) 946-9636
1764 Houret Ct. Milpitas,CA.95035 Tel:408-946-9636 Fax:408-946-9663

PEL # 9205030

INV # 22821

Chain of Custody

DATE: 5/20/92 PAGE: 1 OF: 1

PROJECT MGR.: GARY AGUIAR
COMPANY: HAGEMAN-AGUIAR
ADDRESS: 3732 MT DIABLO BLVD. - LAFAYETTE
PHONE: 510-284-1661 FAX: ___-___-___
SIGNATURE:

ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	TPH-Gasoline (EPA 5030.8015)	TPH-Gasoline(5030.8015) w/BTEX(EPA 602.8020)	TPH-Diesel (EPA 3510/3550.8015)	PURGEABLE AROMATICS BTEX (EPA 602.8020)	TOTAL OIL & GREASE (EPA 5520 E&F)	PESTICIDES/PCB (EPA 608.8080)	TOTAL RECOVERABLE HYDROCARBONS EPA 418.1	TEPH	EPA 601	EPA 625	LUFT METALS						NUMBER OF CONTAINERS
MW 1	5/20	1345	H_2O		X	X			X			X	X	X	X						8
MW 2	"	1415	H_2O		X	X			X			X	X	X	X						8
MW 3	"	1355	H_2O		X	X			X			X	X	X	X						8
						(Pres. HCl)			(Pres. HCl)												

PROJECT INFORMATION

PROJECT NAME:: Quality Tune-Up
PROJECT NUMBER: Castro Valley

SAMPLE RECEIPT

TOTAL # OF CONTAINERS:
RECD. GOOD COND./COLD:

INSTRUCTIONS & COMMENTS: Norm Turn.

RELINQUISHED BY: 1	RECEIVED BY: 1	RELINQUISHED BY: 2	RECEIVED BY: 2
JEFF ROTH 1520	VICTOR DUONG		
SIGNATURE: 5/20/92	SIGNATURE: 5/20/92	SIGNATURE:	SIGNATURE:
NAME: Time:	NAME: Time: 1520	NAME: Time:	NAME: Time:
COMPANY:	COMPANY: PRIORITY LABS	COMPANY:	COMPANY: